ANTIQUE ELECTRONIC SUPPLY®

Tubes · Parts · Books · Supplies

2004 Catalog

Have You Visited our Website?

tubesandmore.com is the one-stop shopping source for your needs! There you will find all the items in this catalog as well as many other surplus items. Our website is very easy to navigate! Check it out for our complete product listing:

tubesandmore.com

Policies and Guarantees

We believe we provide competitive and fair pricing while maintaining the quality and integrity of our products. We feel that we can save you money by providing you with a reliable and timely source for your electronic component needs. We charge a handling fee of $2.50 on each order. We have a $10.00 minimum order requirement that can be waived with the understanding that the cost of shipping and handling may exceed the price of the goods purchased. See page 112 for ordering & shipping info.

Due to the nature of the types of products we supply, all prices and availability are subject to change. While we try to stock everything we catalog, we cannot guarantee availability. If an ordered item is not in stock and we expect to have it again (excluding NOS tubes and surplus goods), it will be back ordered and so noted on your invoice unless otherwise requested. It will be invoiced and shipped when it becomes available. Shipping/handling charges will be adjusted so that you are not penalized by the additional cost of making two shipments. If an item is ordered that cannot be back ordered or we cannot insure availability, it will be cancelled from the order and so noted on the invoice. If an item has -NLA- (no longer available) in the description on the invoice, it means we are no longer able to provide it.

Warning! Vacuum tubes, transformers, capacitors, amplification circuits and other products listed in this catalog operate at high voltages that can cause permanent injury, disability or death. Vacuum tubes operate at high temperatures that can cause severe burns. Never attempt to repair, construct, alter, test, work on or touch electronic equipment unless you are trained or otherwise qualified to do so. Likewise, never remove a protective cover from electronic equipment unless you are trained or otherwise qualified to do so.

Warranty Disclaimer: Our guarantee represents the consumer's exclusive remedy for a defective product. Antique Electronic Supply expressly disclaims all other warranties, express or implied, for the products listed in this catalog.

Limitation on Liability: Antique Electronic Supply shall not be liable for any indirect or consequential damages, including, but not limited to, personal injury or loss of income, arising out of the purchase or use of a product listed in this catalog, and in no event shall our liability exceed the price of the product.

Our Guarantee: All items in our catalog are guaranteed to meet your satisfaction or they may be returned within 10 days for exchange or credit. **Please note, opened software cannot be returned; defective software is returnable for exchange only.** Please check and/or test your purchases upon receipt, even if the items are a back up set for future use, and notify us of any problems within the warranty period.

All new tubes (except horizontal amplifier tubes, also known as "linear or sweep tubes") are guaranteed to meet manufacturers specifications for 90 days, except for breakage or when damaged by operation outside manufacturers' specified ratings. All used tubes are guaranteed to meet minimum industry standards for used tubes and are guaranteed for 30 days. The same exceptions and conditions, as noted above for new tubes, apply to used tubes.

Linear/Sweep tubes are guaranteed for 10 days, except for breakage or damage caused by operation outside the tube manufacturers' specified ratings. Please check all linear/sweep tubes upon receipt. If there is a problem, please notify us immediately. After contacting us, we will take the tube back for evaluation by our technician. We will notify you with a decision about replacement or credit after the evaluation. If the linear/sweep tubes are out of the 10-day warranty period we will not take them back under any circumstances.

Should it be necessary to return merchandise for exchange or credit, please write, fax, e-mail or call with a reason for the return and upon approval, you will be given a Return Authorization number (RA#). Customer service is available by phone from 8am-10am and 2pm-4pm, Mon.-Fri. All returns should be sent promptly; we must receive all returns within 30 days or the RA number will become invalid. The RA number must be placed on the outside of the package being returned in order to assure that your return is handled in a timely manner.

We reserve the right to charge a restocking fee when no evidence of product failure exists if merchandise is returned after the 10-day period. No returns will be accepted without contacting Customer Service for authorization.

Dealers and Resellers: We suggest you test all tubes or any type of electrical product upon receipt, as our warranty does not extend beyond you and ends when you resell the item.

Vintage Schematic T-shirt

White screen-printed vintage schematic. Front printed.

Black

Medium	G-849M	$9.95
Large	G-849L	9.95
Extra Large	G-849XL	9.95

Royal Blue

Medium	G-850M	$9.95
Large	G-850L	9.95
Extra Large	G-850XL	9.95

Tube T-shirt

White screen-printed vacuum tubes in the most common shapes, based on the lineup below. Front printed.

Black

Medium	G-847M	$9.95
Large	G-847L	9.95
Extra Large	G-847XL	9.95

Royal Blue

Medium	G-848M	$9.95
Large	G-848L	9.95
Extra Large	G-848XL	9.95

Vacuum Tubes

We have over 3000 tube types which are new and stocked for immediate shipment. We stock both new old stock (NOS) and currently manufactured tubes. If you do not find your tube type listed, please contact us. Many types have equivalent numbers which we can cross reference. We can supply some original Western Electric tubes. Please contact us for availability and pricing.

Also available are many used tubes in types that have become scarce or expensive. Tube types normally stocked used, as well as new, are listed on page 15. All used tubes have been tested by us and are guaranteed to meet or exceed the minimum industry standards for used tubes. All used tubes have been boxed by us in clean white boxes.

Many tube types are available in different envelope styles and are equivalent electrically. For example, 6A8 is metal, 6A8G is ST shaped large glass and 6A8GT is tubular shaped small glass. See the illustration below for tube styles.

PRICES SHOWN ARE FOR CURRENT STOCK AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. Because most tube types are no longer manufactured, quantities available may be limited. Price and availability of tubes with "CALL" under PRICE will be quoted at the time of inquiry. Tubes are designated as "CALL" tubes when there is a low supply or when there are large fluctuations in the market price. Written quotes are good for 15 days. Special quantity pricing is available on some types. Used tube prices are generally about 50% - 60% of the new tube price. We also have some "Down 'n' Dirty" tubes at low prices for the experimenter. Call for pricing and availability.

Matching and Special Selection

Most output tubes can be supplied in matched multiples at **$1.25** per tube, except for some NOS tubes. Matching on NOS tubes varies and will be quoted at time of inquiry. We match transconductance and plate current. Specific brand, construction, or testing can be supplied for an additional $1.00 per tube.

The information on tubes in this catalog is for sales information ONLY. If you are interested in selling tubes to us, please call, fax or e-mail us at: tubebuyer@tubesandmore.com to request a current bid list.

ST Shape
Shoulder

S Shape
Balloon, Globe

Metal

GT Shape
Tubular

Loctal

Miniature

2 Current Production Tubes

JJ/Tesla
Made in the Slovak Republic

E34L	$9.85
E34L-BLUE	11.85
EL34	9.65
EL84/6BQ5	8.40
ECC99	11.85
KT88	34.85
KT88-BLUE	38.85
5AR4/GZ34	12.95
6L6GC	12.85
6V6-S	9.95
12AT7/ECC81	8.85
12AU7/ECC82	8.40
12AX7-S/ECC83	8.40
12DW7/ECC832	9.85
300B	84.90
6922/E88CC	8.65
7027A	18.85

Winged C
Made in St. Petersburg, Russia

EL34	$12.70
KT88	37.70
6L6GC	12.70
12AX7	9.20
6550C	24.70

Ei Gold Elites
Ei Elites are gold pinned for optimum electrical contact.
Made in the former Yugoslavia

EL84	$9.95
6CG7	10.95
6DJ8	8.95
12AT7	9.95
12AU7	9.95
12AX7	9.95
12BH7	11.95
12DW7	12.95

Ei
Made in the former Yugoslavia

EL84		$6.95
KT90		34.95
6CA7		13.95
6CG7		9.95
12AX7	"Silver Plate"	8.50

Groove Tubes
Made in various countries

E34L-S	Matched pair	$39.95
EL84-S	Matched pair	15.95
KT66-HP	Matched pair	41.95
6L6-S	Matched pair	42.50
6V6-C	Matched pair	31.95
12AX7-C	Each	12.95

Valve Art
Made in China

KT88	$27.80
KT100	29.85
5AR4/GZ34	12.85
6L6GC	10.85
300B	69.85
845	44.85
6550A	17.85

Ruby
Made in various countries

5AR4-C/GZ34	$10.45
5U4G-C	10.95
6L6GC-STR	11.95
6V6GT-BC	9.50

Golden Dragon
Made in China

12AX7	$10.50

Chinese (Sino) Manufacture
Made in China

5AR4/GZ34		$9.95
5U4G		10.45
6SN7GT	Brown Base	7.95
6V6GT		7.90
12AT7		7.95
12AU7		7.95
12AX7		6.95
12AX7B		7.95
807		9.95
811A		12.75
812A		17.95
6146B		16.95

Sovtek, EH and other Russian Tubes
Made in Russia

EL34-EH	Electro Harmonix	$11.25
EL84-SOVT	Sovtek	7.95
5AR4-SOVT	Sovtek	12.95
5Y3GT-SOVT	Sovtek	9.95
6SN7GT-SOVT	Sovtek	8.95
6V6GT-EH	Electro Harmonix	9.95
12AX7-EH	Electro Harmonix	10.95
12AX7LPS-SOVT	Sovtek	10.95
5881	Marked as 6N3C-E	8.95
5881-SOVT	Sovtek	9.75
5881WXT-SOVT	Sovtek	10.95
6922-SOVT	Sovtek	11.95
7199-SOVT	Sovtek	15.95
7591A-EH	Electro Harmonix	24.95

01A (ST)	47.00
0A2	4.30
0A2WA	See 6626/0A2WA
0A3/VR75	5.40
0A4G	19.60
0A5	8.30
0B2	5.10
0B2WA	See 6627
0B3/VR90	2.85
0C2	6.50
0C3-A/VR105	4.80
0D3-A/VR150	4.30
0E3/85A1	7.00
0G3/85A2	3.30
0Y4	2.50
0Z4-A	3.20
0Z4G	4.95
1A1 (ballast)	11.40
1A3	2.00
1A4P	3.40
1A5G	6.10
1A5GT	2.90
1A6	3.80
1A7GT	3.20
1AD2/1BY2A	2.00
1AD4	3.70
1AD5	4.90
1AE4	5.10
1AF4/1AJ4	4.20
1AF5/1AH5	3.60
1AG4	5.00
1AG5	5.60
1AH4	3.50
1AH5	See 1AF5/1AH5
1AJ4	See 1AF4/1AJ4
1AJ5	3.60
1AK4	5.65
1AK5	3.80
1AN5/DF97	3.70
1AU2	2.85
1AU3/1N2A	2.90
1AX2	2.00
1AY2	8.00
1B1 (ballast)	Call
1B3GT/1G3GTA	4.30
1B4	See 1B4-T/951
1B4P	3.40
1B4T/951	6.00
1B5	5.20
1B7G	4.70
1B7GT	2.90
1B22	16.10
1B23	19.10
1B24	13.20
1B32/532A	11.60
1B35A/6038	39.70
1B40	20.00
1B59/R1130B	25.20
1B85	Call
1BC2A	3.20
1BG2	See 1BG2_DY51
1BG2/DY51	2.00
1BH2A	2.00
1BK2/1RK41	2.00
1BQ2/DY802	3.00
1BX2/1X2-B-C	2.65
1BY2A	See 1AD2/1BY2A
1C1 (ballast)	11.10
1C5GT	3.10
1C6	3.30
1C7G	3.20
1C21	19.30
1D1 (ballast)	6.00
1D5GP	5.60
1D7G	4.10
1D8GT	3.35
1D21	28.00
1DG3A	6.20
1DK1	4.10
1DK27	2.85
1DK29	2.00
1DN5	2.95
1E1 (ballast)	Call
1E5G	4.70
1E5GP	3.20
1E7G	4.40
1E7GT	5.10
1F1 (ballast)	11.40
1F4	5.60
1F5G	3.50
1F6	3.35
1F7G	5.00
1G1 (ballast)	13.30
1G3GTA	See 1B3GT/1G3GTA
1G4GT	11.00
1G5G	4.60
1G6G	5.45
1G6GT-G	3.80
1H2	2.85
1H4B (ballast)	11.40
1H4G	6.30
1H5GT-G	3.40
1H6G	2.90
1H46 (ballast)	11.40
1HM4 (ballast)	11.40
1J1 (ballast)	11.40
1J3/1K3A	3.00
1J6G	8.80
1K3A	See 1J3/1K3A
1L4/DF92	2.85
1L6	44.95
1LA4	4.30
1LA6	5.90
1LB4	7.30
1LC5	3.15
1LC6	3.40
1LD5	4.20
1LE3/1LF3	5.10
1LF3	See 1LE3
1LG5	3.40
1LH4	3.20
1LN5	4.60
1M3/DM70	6.70
1M5G	2.85
1N2A	See 1AU3/1N2A
1N5GT/1P5GT	4.80
1N6G	5.60
1N2490 (delay relay)	Call
1P5GT	See 1N5GT/1P5GT
1P21	80.10
1P28	52.30
1P29	22.80
1P39	Call
1P40	17.20
1P41/924	18.80
1Q5GT	2.75
1R4/1294	2.00
1R5/DK91	6.00
1RK31	3.40
1RK41	See 1BK2/1RK41
1S2-A/DY87	3.05
1S4	3.20
1S5/DAF91	3.20
1SA6GT	5.60
1SB6GT	4.50
1T4/DF91	3.20
1T5GT	2.85
1T6	5.50
1U4	4.90
1U5	6.40
1V/6Z3	5.90
1V2	2.85
1V6	4.60
1W4	11.00
1X2-B-C	See 1BX2/1X2-B-C
1Z1 (ballast)	11.40
1Z2	7.20
2 (ballast)	12.70
2-01C	31.70
2A3	68.00
2A3 (RCA)	95.00
2A4G	5.00
2A5	17.00
2A6	6.30
2A7	8.30
2A10 (ballast)	12.70
2A12 (ballast)	11.40
2AF4	2.00
2AH2	3.00
2AS2-A	4.50
2AS15A	23.40
2AV2/2BA2	3.00
2AZ2	2.85
2B3	6.55
2B4	7.20
2B7	4.00
2B22	146.10
2BA2	See 2AV2/2BA2
2BJ2	4.80
2BN4A	2.00
2BP1	Call
2BU2	6.20
2C21/1642	6.10
2C22/7193	7.90
2C26	4.70
2C33/RX233A	11.50
2C34/RK34	4.40
2C36	38.20
2C39A	See 7289/2C39A
2C39B_6897	See 7289/2C39A
2C40-A	42.90
2C42	37.00
2C43/464A	26.80
2C44/464	20.50
2C46	28.00
2C51	See 396A/2C51
2C51W	See 5670/2C51W
2C52	21.60
2C53	Call
2CN3A-B	2.00
2CW4/2DS4	5.30
2CY5	2.00
2D21/PL21	3.20
2DS4	See 2CW4/2DS4
2DV4	9.00
2DZ4	2.00
2E22	40.30
2E24	6.80
2E26	6.65
2E30	9.30
2E31	5.40
2E32	7.20
2E36	5.60
2E42	6.55
2EA5/2EV5	3.20
2EG4	5.00
2EN5	2.00
2ER5	2.00
2EV5	See 2EA5
2FH5	2.00
2FQ5A/2GK5	3.00
2FS5	2.00
2FY5	2.00
2G21	15.00
2G22	15.00
2GK5	See 2FQ5A/2GK5
2GU5	2.00
2GW5	5.60
2H30 (ballast)	Call
2HA5/2HM5	3.60
2HK5/2HQ5	2.50
2HM5	See 2HA5/2HM5
2HQ5	See 2HK5/2HQ5
2K25	Call
2K26	Call
2K28/707B	25.00
2K41	12.50
2K45	185.60
2N090 (delay relay)	14.95
2V2	5.60
2V3G	2.20
2X2A/2Y2/879	2.00
2Y2	See 2X2A/2Y2/879
3-2 (ballast)	11.40
3-4 (ballast)	11.40
3-14 (ballast)	11.40
3-16 (ballast)	12.70
3-38A (ballast)	11.40
3-38 (ballast)	12.70
3-200A3/592	Call
3-400Z/8163	Call
3-500Z (US)	Call
3A2	2.00
3A3-A-C/3AW3	4.60
3A4	4.70
3A5/DCC90	4.30
3A8GT	5.60
3A10B (ballast)	Call
3A10 (ballast)	12.70
3A20B (ballast)	Call
3A20 (ballast)	12.70
3AF4A/3DZ4	2.00
3AL5	2.00
3AT2B	4.95
3AU6	2.00
3AV6	2.00
3AW2A	2.00
3AW3	See 3A3-A-C/3AW3
3B2	5.10
3B4/DL98	2.85
3B5GT	3.20
3B7/1291	3.25
3B22/EL1C	30.50
3B24	14.30
3B25	21.80
3B26	7.50
3B28	33.90
3B29	35.90
3BA6	2.00
3BC5/3CE5	1.60
3BE6	2.00
3BF2	4.80
3BL2A	6.00
3BM2	2.90
3BN2A	2.90
3BN4A	2.00
3BN6	3.70
3BP1	Call
3BS2B	See 3BT2/3BS2B
3BT2/3BS2B	6.25
3BU8/3GS8	1.40
3BW2	See 3BT2/3BS2B
3BY6	1.80
3BZ6	3.40
3C4/3E5/DL96	4.95
3C6/XXB	3.20
3C45/6130	63.20
3CA3	3.20
3CB6/3CF6	2.00
3CE5	See 3BC5/3CE5
3CF6	See 3CB6/3CF6
3CN3B	3.00
3CS6	2.00
3CU3A	8.10
3CV3A	6.70
3CX3/3DA3	5.60
3CY3/3DB3	3.50
3CY5	2.70
3CZ3A	5.70
3D6/1299	8.70
3D21A	38.20
3D21B	38.20
3D21WA/B	37.50
3D22	183.50
3DA3	See 3CX3/3DA3
3DB3	See 3CY3/3DB3
3DC3	8.60
3DF3-A	6.00
3DG4	3.00
3DH3	3.00
3DHH12	2.85
3DHH13	3.10
3DJ3	See 3CY3/3DB3
3DK6	2.00
3DR3	6.00
3DS3	10.70
3DT6A	2.00
3DZ4	See 3AF4A/3DZ4
3E5	See 3C4/3E5/DL96
3E29	See 829B/3E29
3EA5	2.00
3EH7/XF183	2.00
3EJ7/XF184	3.00

3ER5/YC95	2.00
3FH5	3.80
3FQ5/3GK5	3.00
3FS5	2.50
3GK5	See 3FQ5/3GK5
3GS8	See 3BU8/3GS8
3GW5	2.85
3HA5/3HM5	2.00
3HK5	See 3HA5/3HM5
3HM5	See 3HA5/3HM5
3HQ5	3.00
3HS8	3.00
3HTF4 (ballast)	Call
3JC6A	3.00
3KT6	2.00
3LF4	3.30
3MP26	8.60
3Q4	5.05
3Q5GT	3.60
3S4/DL92	3.15
3T4 (ballast)	11.40
3T4A (ballast)	Call
3TF4 (ballast)	11.40
3TF4A (ballast)	Call
3TF7 (ballast)	Call
3TFV4 (ballast)	11.40
3V4/DL94	7.60
3V4 (ballast)	Call
4 (ballast)	Call
4-65A/8165	83.20
4-125A/4D21	134.60
4-250A/5D22	Call
4-400A/8438	Call
4-400C/6775	Call
4A1 (ballast)	11.40
4A10 (ballast)	12.70
4A10S (ballast)	Call
4AU6/4BA6	2.50
4AV6	2.50
4B24/EL3C	99.00
4B31	71.80
4B32	Call
4BC5/4CE5	1.40
4BC8/4RHH2	2.00
4BE6	2.00
4BL8/XCF80	2.00
4BN6	2.00
4BQ7A/4BZ7	2.00
4BS8/4BZ8	2.00
4BU8	1.80
4BX8	2.00
4BZ6/4JH6	3.00
4BZ7	See 4BQ7A/4BZ7
4BZ8	See 4BS8/4BZ8
4C35A	129.80
4CB6/4DE6	3.00
4CE5	See 4BC5/4CE5
4CS6	2.75
4CX250B/7203	126.90
4CX250F/7204	Call
4CX250FG	Call
4CX250K/8245	53.00
4CX250R/7580	Call
4CX300A/8167	Call
4CX300Y/8561	Call
4CX350A/8321	Call
4CX350F/8322	Call
4CY5	2.00
4D21	See 4-125A/4D21
4D22	Call
4D32	71.80
4DE6	See 4CB6/4DE6
4DK6	3.40
4DT6A	2.00
4E27	45.40
4EH7/LF183	2.00
4EJ7/LF184	3.00
4ES8	2.00
4EW6/4GM6	2.00
4GJ7/4GX7	4.80
4GK5	2.00
4GM6	See 4EW6/4GM6
4GS7	3.00
4GS8	5.80
4GX7	See 4GJ7/4GX7
4GZ5	2.00
4H4C (ballast)	Call
4HA5/4HM5	2.00
4HA7/4HC7	2.00
4HC7	See 4HA7/4HC7
4HK5	2.00
4HM5	See 4HA5/4HM5
4HM6/4JC6A	3.00
4HQ5	2.00
4HS8/4KF8	2.90
4HT6	3.40
4HTF4 (ballast)	12.70
4JC6A	See 4HM6/4JC6A
4JC6A/4JD6	3.00
4JD6	See 4JC6A/4JD6
4JH6	See 4BZ6/4JH6
4KE8	2.00
4KF8	See 4HS8/4KF8
4KN8/4RHH8	5.60
4KT6	2.50
4LJ8	5.60
4LU6	2.00
4MK8	4.00
4MP12	6.70
4MP26	8.50
4PR60A	198.60
4PR60B/8252	Call
4RHH2	See 4BC8/4RHH2
4RHH8	See 4KN8
4X150A/7034	51.50
4X150D/7035	Call
4X150G	72.90
4X250B	Call
5 (ballast)	12.70
5-4 (ballast)	12.70
5-11 (ballast)	12.70
5-11V1A (ballast)	Call
5A6	4.60
5AM8	2.00
5AN8	2.00
5AQ5	3.00
5AR4/GZ34 (US/European)	Call
5AR4-C (Ruby)	10.45
5AR4 (China)	9.95
5AR4 (JJ)	12.95
5AR4 (Sovtek)	12.95
5AR4 (Valve Art)	12.85
5AS4A/5U4GB	14.10
5AS8	2.00
5AT8	2.00
5AU4/5V3A	4.70
5AV8	2.70
5AW4	4.90
5AZ4	3.60
5B8	2.00
5BC3-A	5.25
5BE8	3.40
5BK7A	2.00
5BQ7A/5BZ7	2.00
5BR8	See 5CL8A/5BR8
5BT8	2.70
5BW8	3.00
5BZ7	See 5BQ7A/5BZ7
5C21	See C6J/5C21
5C22/6279	Call
5CG8	2.00
5CL8A/5BR8	2.00
5CM8	2.00
5CQ8	2.00
5CZ5	2.00
5D21	44.20
5D22	See 4-250A/5D22
5DH8	2.80
5DJ4	6.20
5EA8/5GH8A	3.00
5ES8	2.00
5EU8	2.00
5EW6/5GM6	2.00
5FG7	2.00
5FV8	See 5CL8A/5BR8
5GH8A	See 5EA8/5GH8A
5GJ7/LCF801	3.00
5GM6	See 5EW6/5GM6
5GS7	3.00
5GX6/5HZ6	3.20
5GX7	2.00
5HA7	1.40
5HB7	2.70
5HC7	2.75
5HG6	See 5GX6/5HZ6
5HG8	2.70
5HZ6	See 5GX6/5HZ6
5J6/5MHH3	2.00
5J32	Call
5JK6	3.00
5JL6	2.65
5JW8	2.00
5KD8	3.00
5KE8	3.00
5KZ8	3.00
5LJ8	3.00
5MB8	3.00
5MHH3	See 5J6/5MHH3
5MK9	10.70
5R4GA	7.40
5R4GB	13.20
5R4GY-A-B	12.95
5R4WGA/B/Y (Chatham)	10.90
5R4WGA-B-Y	7.20
5RK16	3.70
5T1A (ballast)	12.20
5T4	6.90
5T8	2.00
5TF4 (ballast)	13.30
5U4G/5AS4	24.50
5U4GB	See 5AS4A/5U4GB
5U4G-C (Ruby)	10.95
5U4G (China)	10.45
5U4WG	See 5931/5U4WG
5U8	2.00
5U9/LCF201	4.00
5V3A	See 5AU4/5V3A
5V4G	14.90
5V4GA	11.40
5V6GT	3.35
5W4	5.10
5W4GT	4.60
5X4G	6.50
5X8	2.70
5X9/LCF200	6.00
5Y3GT	10.60
5Y3GT (Sovtek)	9.95
5Y3WGT	See 6106/5Y3WGT
5Y3WGTB	See 6087/5Y3WGTB
5Y4G	10.70
5Y4GT	5.90
5Z3	18.50
5Z4	6.60
6-1H (ballast)	11.40
6-4 (ballast)	11.40
6-11 (ballast)	12.70
6A3	41.60
6A4	7.10
6A5	36.80
6A5G	33.80
6A6	5.60
6A7	12.90
6A8	12.90
6A8G	Call
6A8GT	Call
6AB4/EC92	4.15
6AB5/6N5	Call
6AB7/1853	5.20
6AB8/ECL80	5.80
6AC5GT	11.80
6AC7/1852	3.90
6AC7WA	See 6134/6AC7WA
6AC10	6.25
6AD4	6.30
6AD6G/6AF6GT	18.40
6AD7G	6.60
6AD8/6DC8	4.90
6AD10	8.50
6AE5G/6AF5G	10.30
6AE5GT	7.30
6AE6G	4.70
6AE7GT	Call
6AF3	2.00
6AF4A/6DZ4	4.25
6AF5G	See 6AE5G
6AF6GT	See 6AD6G/6AF6GT
6AF9	3.00
6AF11	3.00
6AG5	2.75
6AG5WA	See 6186/6AG5WA
6AG6G/EL33	Call
6AG7/6AK7	7.10
6AG9	9.30
6AG11	4.80
6AH4GT	9.75
6AH6	3.60
6AH6WA	See 6485/6AH6WA
6AH7GT	7.00
6AH9	3.00
6AJ4	4.05
6AJ5	3.20
6AJ8/ECH81	6.30
6AK4	5.30
6AK5/EF95	3.80
6AK5W	See 5654/6AK5W
6AK6	4.10
6AK7	See 6AG7/6AK7
6AK8/EABC80	7.10
6AK10	5.20
6AL3/EY88	3.20
6AL5/6EB5	3.00
6AL5W	See 5726/6AL5W
6AL7GT	4.15
6AL11	5.50
6AM4	3.05
6AM5/EL91	11.20
6AM6/EF91	4.70
6AM8A	6.10
6AN4	4.80
6AN5	2.50
6AN5WA	3.00
6AN6	2.85
6AN7A/ECH80	4.00
6AN8A	6.30
6AQ4/EC91	12.70
6AQ5A/6HG5	5.10
6AQ5W	See 6005/6AQ5W
6AQ6	2.95
6AQ7GT	2.00
6AQ8/ECC85	14.80
6AR5	9.90
6AR6	17.80
6AR6WA	See 6098
6AR8	5.05
6AR11	4.05
6AS5	2.00
6AS6	2.00
6AS6W	See 5725/6AS6W
6AS7G/6520	10.90
6AS7GA	7.20
6AS8	2.00
6AS11	4.95
6AT6/6BK6	3.00
6AT8-A	3.70
6AU4GTA	6.00
6AU5GT	6.10
6AU6A/EF94	5.00
6AU6WA	See 6136/6AU6WA
6AU7-A	6.05
6AU8-A/6BH8	4.75
6AV5GA	5.65
6AV5GT	4.35
6AV6/EBC91	3.35
6AV11	5.90
6AW6	See 6AU6A/EF94
6AW8A	4.05

6AX3	2.00
6AX4GTB	2.00
6AX5GT	4.90
6AX6G	14.20
6AX7	8.40
6AX8	4.95
6AY3B	3.00
6AY11	2.00
6AZ8	10.10
6B3	2.85
6B4G	42.70
6B5	22.40
6B6G	8.00
6B7	6.40
6B8	4.00
6B8G	3.40
6B10	3.00
6BA3	3.00
6BA5	5.60
6BA6/EF93	4.60
6BA6W See 5749/6BA6W	
6BA7	8.80
6BA8-A	5.00
6BA11	5.45
6BC4	6.65
6BC5/6CE5	2.00
6BC7	3.20
6BC8/6BZ8	4.95
6BD4-A	5.60
6BD5GT	3.50
6BD6	2.85
6BD7	4.20
6BD7A/EBC81	7.40
6BD11	3.00
6BE3/6BZ3	3.00
6BE6/EK90	4.20
6BE6W See 5750/6BE6W	
6BF5	3.80
6BF6/6BU6	2.95
6BF7	4.90
6BF8	1.80
6BF11	7.80
6BG6G-GA	8.90
6BH3-A	2.90
6BH6/E90F	4.10
6BH8 See 6AU8-A/6BH8	
6BH11	5.00
6BJ3	1.60
6BJ6/E99F	3.80
6BJ7	2.80
6BJ8	4.40
6BK4-A-B	10.20
6BK4C/6EL4A	33.80
6BK5	2.00
6BK6 See 6AT6/6BK6	
6BK7-A-B	4.85
6BL4	2.90
6BL6	193.40
6BL7GTA	8.10
6BL8/6LN8	5.00
6BM6	139.30
6BM8/ECL82	10.10
6BN4A	3.85
6BN5/EL85	2.50
6BN6/6KS6	4.40
6BN8	8.70
6BN11	7.00
6BQ5 See EL84	
6BQ5-JJ See EL84-JJ	
6BQ6GTB/6CU6	1.80
6BQ7A/6BZ7	1.60
6BR3/6RK19	2.95
6BR5/EM80	10.30
6BR7	17.80
6BR8A/6FV8	2.50
6BS3A	2.50
6BS8	4.70
6BT4/EZ40	7.10
6BU6 See 6BF6/6BU6	
6BU8/6KF8	2.00
6BV8	5.90
6BV11	3.00
6BW3	5.40
6BW4	3.80
6BW6	10.70
6BW7	4.95
6BW8	1.80
6BW11	3.00
6BX6/EF80	2.75
6BX7GT	10.70
6BY4	66.20
6BY5G	5.60
6BY5GA	3.35
6BY6	4.50
6BY7/EF85	3.60
6BY8	3.05
6BY11	5.60
6BZ3 See 6BE3/6BZ3	
6BZ6/6JH6	5.20
6BZ7 See 6BQ7A/6BZ7	
6BZ8 See 6BC8/6BZ8	
6C4/EC90	5.00
6C4WASee 6100/6C4WA	
6C5	3.20
6C5G	10.50
6C5GT	5.90
6C6	4.60
6C7	5.60
6C8G	3.50
6C9	11.60
6C10	19.95
6C15 (delay relay)	14.95
6C20T (delay relay)	Call
6C30 (delay relay)	14.95
6C30T (delay relay)	14.95
6C45T (delay relay)	14.95
6C60 (delay relay)	14.95
6C90 (delay relay)	14.95
6C90T (delay relay)	Call
6C120T(delay relay)	14.95
6CA4/EZ81	Call
6CA5/6EH5	3.20
6CA7 Also See EL34	
6CA7 (European)	52.60
6CA7/EL34 (Mullard)	Call
6CA7/EL34 (US)	Call
6CA7 (EI)	13.95
6CB5A	5.50
6CB6A/6CF6	3.50
6CD3/6CG3	6.05
6CD6G/6DN6	6.65
6CD6GA/6EX6	6.30
6CD7/EM34	Call
6CE5 See 6BC5/6CE5	
6CF6 See 6CB6A/6CF6	
6CG3 See 6CD3/6CG3	
6CG7/6FQ7	11.50
6CG7 (EI)	9.95
6CG7 (EI Elite gold)	10.95
6CG8-A	2.50
6CH3 See 6CJ3/6CH3	
6CH8	3.40
6CJ3/6CH3	5.70
6CJ5/EF41	5.75
6CJ6/EL81	16.30
6CK3/6CL3	3.00
6CK4	10.00
6CK5/EL41	13.40
6CL3 See 6CK3/6CL3	
6CL5	6.25
6CL6	5.80
6CL8A	4.40
6CM3/6DN3	5.60
6CM4/EC86	6.00
6CM5/EL36	9.65
6CM6	6.10
6CM7	2.60
6CM8	3.60
6CN6/EL38	22.90
6CN7	4.25
6CQ4/6DE4	2.00
6CQ6/EF92	4.30
6CQ8	3.00
6CR6	2.00
6CS6/EH90	4.30
6CS7	4.50
6CT3	11.70
6CT7/EAF42	5.60
6CU5	2.00
6CU6 See 6BQ6GTB/6CU6	
6CU7/ECH42	7.90
6CU8	2.00
6CV7/EBC41	4.30
6CW4/6DS4	14.80
6CW5/EL86	4.95
6CW7/ECC84	3.70
6CX8/6JA8	4.50
6CY5	5.20
6CY7	3.70
6CZ5	8.10
6D4	6.80
6D6	5.60
6D8G	5.90
6D10	6.40
6DA4-A/6DM4	2.65
6DA5/EM81	7.30
6DA6/EF89	10.90
6DB5	2.00
6DB6	4.70
6DC6	8.10
6DC8 See 6AD8/6DC8	
6DC8/EBF89	4.70
6DE4 See 6CQ4/6DE4	
6DE6	2.00
6DE7	5.20
6DG6GT/6W6GT	2.85
6DG7_EM85 See EM85	
6DHH12	2.90
6DHH13	2.90
6DJ8/ECC88	9.30
6KD8 (EI Elite gold)	8.95
6DK3/6DL3	5.80
6DK6	3.40
6DL3 See 6DK3	
6DL4/EC88	6.10
6DL5/EL95	6.60
6DM4 See 6DA4-A/6DM4	
6DN3 See 6CM3	
6DN6 See 6CD6G/6DN6	
6DN7	5.20
6DQ3/6DT3	10.20
6DQ3A/6DU3	8.70
6DQ4	5.00
6DQ5	11.80
6DQ6A-B/6GW6	7.50
6DR4	5.20
6DR7	5.10
6DR8/EBF83	2.00
6DS4 See 6CW4/6DS4	
6DS5	2.00
6DS8/ECH83	4.60
6DT3 See 6DQ3/6DT3	
6DT4	5.25
6DT5	2.00
6DT6A	3.05
6DT8	3.35
6DU3 See 6DQ3A/6DU3	
6DV4	10.90
6DW4B See 6CJ3/6CH3	
6DW5	4.70
6DX8/ECL84	2.50
6DY5/EL82	4.80
6DZ4 See 6AF4A/6DZ4	
6E5	23.40
6E6	7.10
6E7	10.00
6EA4/6EH4A	6.20
6EA5/6EV5	4.00
6EA7/6EM7	6.60
6EA8	6.20
6EB5 See 6AL5/6EB5	
6EB8/6GN8	5.30
6EC4A	7.10
6ED4/ED500	10.70
6EF4/6EJ4-A	10.70
6EH4A See 6EA4/6EH4A	
6EH5 See 6CA5/6EH5	
6EH7/EF183	3.00
6EH8	2.00
6EJ4-A See 6EF4/6EJ4-A	
6EJ7/EF184	1.40
6EL4A See 6BK4C/6EL4A	
6EM5	6.30
6EM7 See 6EA7/6EM7	
6EN4	Call
6EQ7	3.20
6ER5/EC95	5.10
6ES5	2.00
6ES6/6FD6	3.35
6ES8/ECC189	7.00
6ET7	2.00
6EU7	20.60
6EU8	2.00
6EV5 See 6EA5/6EV5	
6EV7	4.80
6EW6	5.70
6EW7	6.25
6EX6 See 6CD6GA/6EX6	
6EY5/6EZ5	4.80
6EY6	4.90
6EZ5 See 6EY5/6EZ5	
6EZ8	4.10
6F4	8.60
6F5/H63	5.30
6F5G	20.50
6F6	9.90
6F6G	24.40
6F6GT	13.90
6F7	5.10
6F8G	8.80
6F15	4.50
6F17	4.00
6F33	7.20
6FA7	4.60
6FC7	3.60
6FD6 See 6ES6/6FD6	
6FD7	2.00
6FE5	4.50
6FG5	2.00
6FG6/EM84	6.60
6FG7	2.50
6FH5	2.50
6FH8	13.10
6FJ7	3.20
6FM7	3.50
6FM8	2.70
6FQ5A/6GK5	7.10
6FQ7 See 6CG7/6FQ7	
6FS5	3.70
6FV6	2.00
6FV8 See 6BR8A/6FV8	
6FW5	4.00
6FY5/EC97	5.30
6FY7	3.00
6G5/6U5	38.70
6G6G	5.60
6G11	2.50
6GA7	10.70
6GB3A	7.20
6GB5-A/EL500	5.95
6GB6	10.30
6GB7	8.40
6GC5	3.20
6GD7	4.60
6GE5	6.90
6GE8/7734	29.90
6GF5	3.00
6GF7A	6.50
6GH8A	3.60
6GJ5A	9.80
6GJ7/ECF801	2.20
6GJ8	4.70
6GK5 See 6FQ5A/6GK5	
6GK6	12.50
6GL7	7.20
6GM5	27.80
6GM6	5.70
6GM8/ECC86	4.90
6GN8 See 6EB8/6GN8	
6GQ7	2.00
6GR7	5.60
6GS7	3.00
6GT5-A	18.00
6GU5	3.60
6GU7	6.75

6GV5	4.00
6GV8/ECL85	3.80
6GW6	See 6DQ6A-B/6GW6
6GW8/ECL86	8.60
6GX6/6GY6	4.00
6GX7	2.00
6GX8/EAM86	10.80
6GY5	3.00
6GY6	See 6GX6/6GY6
6GY8	2.85
6GZ5	5.10
6H1 (ballast)	Call
6H1N	8.60
6H2N	6.35
6H4-GT	13.10
6H6	2.65
6H6G	12.30
6H6GT	3.00
6HA5/6HM5	4.50
6HA6/6HB6	3.00
6HB5	17.20
6HB6	See 6HA6/6HB6
6HB7	4.35
6HD5	5.60
6HD7/6HJ7	2.00
6HE5/6JB5	6.75
6HF5	17.80
6HF8	4.85
6HG5	See 6AQ5A/6HG5
6HG8/ECF86	3.00
6HJ5	4.90
6HJ7	See 6HD7/6HJ7
6HJ8	3.00
6HK5	4.20
6HL8	3.00
6HM5	See 6HA5/6HM5
6HM6/6HT6	2.00
6HQ5	See 6HA5/6HM5
6HR5	2.00
6HS5/6HV5A	8.80
6HS6	14.80
6HS8	See 6BU8/6KF8
6HT6	See 6HM6/6HT6
6HU6/EM87	5.60
6HU8/ELL80	38.70
6HV5A	See 6HS5/6HV5A
6HW8	6.60
6HZ5/6JD5	5.50
6HZ6	3.05
6HZ8	2.00
6J4	2.85
6J5	5.30
6J5GT	9.40
6J6A/ECC91	3.15
6J6WA	See 6101
6J7/EF36	4.80
6J7G	5.90
6J7GT	5.40
6J8G	10.30
6J9	2.90
6J10/6Z10	7.80
6J11	5.25
6JA5	17.00
6JA8	See 6CX8/6JA8
6JB5	See 6HE5/6JB5
6JB6-A	26.30
6JC5	See 6HE5/6JB5
6JC6A	5.20
6JC8	2.00
6JD5	See 6HZ5/6JD5
6JD6	3.40
6JE6A	Call
6JE6C/6LQ6	47.30
6JE8	2.00
6JF6	10.00
6JG5	3.00
6JG6A	37.40
6JH5	9.70
6JH6	See 6BZ6/6JH6
6JH8	5.70
6JK5	7.60
6JK6/6JL6	22.90
6JK8	2.95
6JL6	See 6JK6/6JL6
6JL8	5.95
6JM6-A	5.90
6JN6	5.30
6JN8	2.00
6JQ6	2.00
6JR6	31.70
6JS6B	43.00
6JS6C	46.30
6JT6A	29.10
6JT8/6KR8	2.50
6JU6	13.70
6JU8A	3.00
6JV8	2.00
6JW8/ECF802	3.00
6JX8/ECH84	2.00
6JY8	2.00
6JZ6	6.45
6JZ8	5.60
6K5GT	4.40
6K6G	7.00
6K6GT	6.95
6K7	4.40
6K7G	5.20
6K7GT	4.30
6K8	4.70
6K8G	4.00
6K8GT	5.90
6K11/6Q11	9.10
6KA8	3.00
6KD6	42.90
6KD8/6U8A	5.30
6KD8/6U8A(Siemans)	3.30
6KE6	5.60
6KE8	6.60
6KF8	See 6BU8/6KF8
6KG6A/EL509	24.70
6KL8	2.90
6KM6	13.00
6KM8	2.65
6KN6	16.60
6KN8/6RHH8	17.60
6KR8	See 6JT8/6KR8
6KS6	See 6BN6/6KS6
6KT6	3.00
6KT8	3.00
6KU8	2.00
6KV6A	43.20
6KV8	2.00
6KX8/ECC808	47.30
6KY8A	4.00
6KZ8	4.00
6L4	8.50
6L5G	5.10
6L6	20.80
6L6G	37.40
6L6GA	16.20
6L6GB	22.60
6L6GC	49.90
6L6GC (RCA black plate)	118.00
6L6GC (JJ)	12.85
6L6GC-STR (Ruby)	11.95
6L6GC (Valve Art)	10.85
6L6GC (Winged C)	12.70
6L6 S (Groove Tube, matched pair)	42.50
6L6WGB	See 5881/6L6WGB
6L7	3.70
6L7G	4.80
6LB6	29.50
6LB8	See 6JT8/6KR8
6LC8	2.00
6LD20	8.60
6LE8	3.00
6LF6/6MH6	66.60
6LF8	4.00
6LH6A/6LJ6	8.30
6LJ6	See 6LH6A/6LJ6
6LJ8	3.00
6LM8	4.00
6LN8	See 6BL8/6LN8
6LQ6	See 6JE6C/6LQ6
6LQ8	3.00
6LR6	38.70
6LR8	3.50
6LT8	3.00
6LU6	4.15
6LU8	6.10
6LW6	35.10
6LX6	39.30
6LX8/LCF802	2.95
6LY8	3.00
6M3	13.20
6M11	6.90
6MA6	12.90
6MB8	3.00
6MD8	3.00
6ME6	40.50
6ME8	3.00
6MF8	11.60
6MG8	3.00
6MH6	See 6LF6/6MH6
6MHH3	9.60
6MJ6	64.50
6MJ8	3.00
6MK8	3.00
6ML8	8.20
6MN8	3.00
6MQ8	3.00
6MU8	4.00
6MV8	4.00
6N1P (Svetlana)	5.95
6N02 (delay relay)	14.95
6N03 (delay relay)	14.95
6N03T (delay relay)	14.95
6N4	4.80
6N5	See 6AB5/6N5
6N05 (delay relay)	14.95
6N05T (delay relay)	Call
6N6G	30.60
6N7	6.10
6N7GT	9.60
6N8/EBF80	5.90
6N08T (delay relay)	14.95
6N010 (delay relay)	14.95
6N015 (delay relay)	14.95
6N015T (delay relay)	14.95
6N020T(delay relay)	14.95
6N030 (delay relay)	14.95
6N045 (delay relay)	14.95
6N045T (delay relay)	14.95
6N060 (delay relay)	14.95
6N060T(delay relay)	14.95
6N075 (delay relay)	Call
6N090 (delay relay)	14.95
6N0120 (delay relay)	14.95
6N0120T(delay relay)	14.95
6N0180T (delay relay)	14.95
6P5GT	17.80
6P7G	7.40
6Q4/EC80	26.75
6Q5G	5.60
6Q7	4.70
6Q7G	9.80
6Q7GT	4.90
6Q11	See 6K11/6Q11
6QL6	8.40
6R3/EY81	5.60
6R4	9.60
6R7	3.20
6R7G/OM4	4.30
6R7GT	4.00
6R8	5.40
6RHH8	See 6KN8/6RHH8
6RK19	See 6BR3/6RK19
6RP15	4.70
6RP22	5.60
6S2-A/EY87	2.85
6S4A	3.70
6S7	3.70
6S7G	4.00
6S8GT	2.80
6SA7	3.20
6SA7GT	3.40
6SB7-Y	4.60
6SC7	6.90
6SC7GT	Call
6SD7GT	4.25
6SF5	4.00
6SF5GT	4.90
6SF7	4.70
6SG7	5.40
6SG7GT	4.95
6SH7	3.50
6SH7GT	5.90
6SJ7	4.40
6SJ7GT	10.40
6SK7	4.90
6SK7GT	4.70
6SK7WA	See 6137/6SK7WA
6SL7GT	8.10
6SL7WGT	7.70
6SN7GT-B (full base)	20.00
6SN7GT (brown base)	Call
6SN7GT (Sovtek)	8.95
6SN7GT (China brown base)	7.95
6SQ7	4.90
6SQ7GT	4.10
6SR7	3.70
6SS7	4.70
6SU7GTY/6188	9.90
6SV7	2.00
6T4	2.00
6T4 (ballast)	Call
6T7G	5.90
6T8-A	2.00
6T9	3.20
6T10	3.00
6TF4 (ballast)	12.70
6U4GT	3.20
6U5	See 6G5/6U5
6U6GT	5.00
6U7G	3.20
6U8A	See 6KD8/6U8A
6U9/ECF201	2.00
6U10	6.40
6V3-A	2.00
6V4/EZ80	9.30
6V6	15.60
6V6G	Call
6V6GT (Electro-Harmonix)	9.95
6V6GT (Mazda)	20.70
6V6GT	18.70
6V6 C (Groove Tube, matched pair)	31.95
6V6GT-BC (Ruby)	9.50
6V6GT (China)	7.90
6V6 (JJ, spiral filament)	9.95
6V7G	5.60
6V8	2.00
6V9	2.00
6W4GT	2.00
6W6GT	See 6DG6GT/6W6GT
6W7G	4.95
6X2/EY51	5.50
6X4/EZ90	5.30
6X4WA	See 6202/6X4WA
6X5GT/EZ35	4.75
6X8-A	4.35
6X9/ECF200	2.50
6Y5	9.30
6Y6G	3.70
6Y6GA	4.50
6Y6GT	4.20
6Y7G	5.00
6Y9/EFL200	2.40
6Z3	See 1V/6Z3
6Z4/84	8.10
6Z5/12Z5	5.70
6Z7G	8.10
6Z10	See 6J10/6Z10
6ZY5G	5.90
7A4/XXL	6.00
7A5	4.10
7A6	3.15

7A7	4.40
7A8	3.20
7AD7	3.00
7AF7	12.30
7AG7/7AH7	4.80
7AH7	See 7AG7/7AH7
7AK7	5.10
7AN7/PCC84	2.00
7AU7	2.00
7B4	3.20
7B5	3.40
7B6	4.40
7B7	Call
7B8	3.30
7C4/1203A	2.00
7C5	9.00
7C6	11.00
7C7	4.20
7DJ8/PCC88	8.20
7E5/1201	5.60
7E6	3.10
7E7	2.85
7EK7/7FC7	2.00
7ES8	2.00
7EY6	2.00
7F7	9.40
7F8	9.80
7FC7	See 7EK7/7FC7
7G7/1232	6.00
7G8	5.60
7GS7	3.00
7GV7	4.50
7H4B (ballast)	12.70
7H7	4.60
7HG8/8HG8	2.00
7J7/7S7	4.10
7K7	7.20
7KY6/9KX6	5.90
7L7	2.00
7MP18	2.85
7N7	9.20
7Q7	3.05
7R7	4.20
7S7	See 7J7/7S7
7T7	4.05
7V7/1231	4.40
7W7	3.05
7X6	2.00
7X7/XXFM	4.30
7Y4	3.20
7Z4	3.20
8A8/9A8/9U8	2.00
8AC9	2.00
8AC10	3.00
8AL9	6.55
8AR11	4.00
8AU8A/8BA8A	2.00
8AV11	4.70
8AW8A	3.50
8B8	4.00
8B10	3.00
8BA8A	See 8AU8A/8BA8A
8BA11	4.00
8BH8	3.00
8BM11	3.00
8BN8	2.95
8BN11	3.00
8BQ5	8.90
8BQ11	3.00
8BU11	4.00
8CB11	3.00
8CG7/8FQ7	3.90
8CM7	2.00
8CN7	2.00
8CS7	2.00
8CW5-A/XL86	2.50
8CX8	2.00
8EB8/8GN8	2.00
8EM5	2.00
8ET7	2.00
8FQ7	See 8CG7/8FQ7
8GJ7/PCF801	2.00
8GN8	See 8EB8/8GN8
8GU7	3.00
8HG8	See 7HG8/8HG8
8HG8/PCF86	2.00
8JU8A	2.90
8JV8	3.00
8KA8	2.00
8KR8	3.00
8LC8	2.70
8LS6	4.20
8LT8	3.00
8SN7GTB	4.30
8U9	2.00
8X9	2.00
9-4A (ballast)	12.70
9-4 (ballast)	11.10
9-4D (ballast)	Call
9-7 (ballast)	11.40
9A8	See 8A8/9A8/9U8
9AH9	4.00
9AK8/PABC80	2.00
9AK10	2.00
9AM10	3.00
9AQ8/PCC85	2.50
9AU7	2.00
9BJ11	4.10
9BR7	2.75
9CL8	2.00
9EA8	2.00
9GH8A	3.00
9GV8	2.00
9JW8/PCF802	2.00
9KC6	2.00
9KX6	See 7KY6/9KX6
9KZ8	2.00
9LA6	1.40
9MHH3	7.20
9ML8	8.30
9MN8	4.00
9MP12	3.15
9RA6	5.70
9RAL1	4.25
9RHR2	2.85
9TF2 (ballast)	Call
9U8	See 8A8/9A8/9U8
9V9/PCL200	4.80
10	80.00
10-4 (ballast)	12.70
10-4C (ballast)	12.70
10-23A (ballast)	12.70
10-25 (ballast)	12.70
10AL11	2.00
10BQ5	5.50
10C8	2.00
10CW5/LL86	1.60
10DA7	3.70
10DE7	4.95
10DR7/10FD7	3.00
10DX8/LCL84	2.00
10E	6.10
10EB8/10GN8	3.00
10EG7	3.00
10EM7	2.60
10EW7	2.50
10F1	8.80
10FD7	See 10DR7
10GF7A	8.00
10GK6	3.00
10GN8	See 10EB8/10GN8
10GV8/LCL85	2.00
10HF8	2.00
10JA5	8.00
10JA8	2.00
10JT8/10LY8	4.00
10JY8/10LZ8	3.00
10KR8/10LB8	6.10
10KU8	2.00
10LB8	See 10KR8/10LB8
10LD6	4.50
10LE8	2.00
10LT8/10LW8	3.30
10LW8	See 10LT8/10LW8
10LY8	See 10JT8/10LY8
10LZ8	See 10JY8/10LZ8
10T1 (ballast)	12.70
10T10	3.00
10Y (ST)	Call
10Z10	6.75
11A (ballast)	12.70
11AF9	5.00
11AR11	2.60
11B (ballast)	11.40
11BM8	6.20
11BQ11	3.00
11BT11	4.00
11CA11	4.00
11C (ballast)	12.70
11CF11	5.00
11CH11	4.20
11CY7	3.00
11DS5	6.90
11FY7	8.50
11HM7	3.50
11JE8	2.00
11KV8	3.00
11LQ8	3.00
11LT8	2.00
11LY6	12.10
11MS8	7.10
11R3	2.85
11Y9/LFL200	3.10
12-1H (ballast)	11.40
12-4 (ballast)	11.40
12A (ST)	37.40
12A4	3.20
12A5	4.05
12A6	2.95
12A6GT	3.40
12A7	6.00
12A8G	3.40
12A8GT	3.00
12AB5	4.20
12A (ballast)	12.70
12AC5/UF41	6.25
12AC6	2.00
12AC10A	4.00
12AD6/12AG6	2.80
12AE6A	3.10
12AE7	4.70
12AE10	3.00
12AF3	3.00
12AF6	3.40
12AG6	See 12AD6/12AG6
12AH7GT	2.70
12AH8	10.40
12AJ6	2.50
12AJ7/HCH81	4.40
12AL5	4.15
12AL8	3.00
12AL11	2.50
12AQ5	2.65
12AS5	3.20
12AT6/HBC90	3.00
12AT7 (Tele., Amperex BB)	Call
12AT7/ECC81	9.00
12AT7 (China)	7.95
12AT7 (EI Elite gold)	9.95
12AT7/ECC81 (JJ)	8.85
12AT7 (RCA)	23.10
12AT7WA	See 6201/12AT7WA
12AT7WC	9.30
12AU6	3.50
12AU7A/ECC82	15.10
12AU7A (Tele., Mullard, Amperex BB)	Call
12AU7A (RCA)	25.50
12AU7 (China)	7.95
12AU7 (EI Elite gold)	9.95
12AU7/ECC82 (JJ)	8.40
12AU7WA	See 6189/12AU7WA
12AV5GA	2.00
12AV6	4.10
12AV7	5.20
12AW6	1.40
12AX3	2.95
12AX4GTA	2.80
12AX4GTB	2.00
12AX7A (Amperex Bugle Boy)	Call
12AX7 (China)	6.95
12AX7 (Electro-Harmonix)	10.95
12AX7 (European)	12.10
12AX7 (Golden Dragon)	10.50
12AX7 (EI Elite gold)	9.95
12AX7 (Mullard)	Call
12AX7A (RCA)	36.10
12AX7 (Telefunken ribbed plate)	Call
12AX7 (Telefunken smooth plate)	Call
12AX7-A (US)	18.95
12AX7B (China)	7.95
12AX7 (EI Silver Plate)	8.50
12AX7C (Groove Tube)	12.95
12AX7LPS (Sovtek, spiral filament)	10.95
12AX7/ECC83 (JJ, spiral filament)	8.40
12AX7 (Winged C)	9.20
12AY3A	2.00
12AY7	Call
12AZ7A	5.20
12B4A	5.00
12B7/14A7	5.10
12B8GT	10.00
12BA6/HF93	4.00
12BA7	2.80
12B (ballast)	12.70
12BD6	4.95
12BE3	2.00
12BE6/HK90	6.10
12BF6/12BU6	2.90
12BF11	8.20
12BH7A	19.70
12BH7A(EI Elite gold)	11.95
12BK5	2.00
12BK6	3.10
12BL6	2.65
12BN6	2.50
12BQ6GA	3.00
12BQ6GTA-B	2.00
12BR3/12RK19	3.15
12BR7	4.00
12BS3-A	2.00
12BT3	2.00
12BT6	5.60
12BU6	See 12BF6/12BU6
12BV7/12BY7A	11.20
12BV11	3.00
12BW4	4.20
12BY7A	See 12BV7/12BY7A
12BZ6	11.90
12BZ7	5.20
12C5/12CU5	2.00
12C8	1.80
12C8GT	2.00
12C180 (delay relay)	14.95
12CA5/12EH5	2.00
12C (ballast)	12.70
12CK3/12CL3	2.50
12CL3	See 12CK3/12CL3
12CN5	2.00
12CR6	2.90
12CS6	2.90
12CT3	3.00
12CT8	3.05
12CU5	See 12C5/12CU5
12CU6	See 12BQ6GA
12CX6	1.40
12D4/12DM4	2.85
12DA6/UF89	5.90
12DB5	2.00
12D (ballast)	12.70
12DE8	2.00
12DF7/12DT7	6.90
12DK6	3.60
12DK7	3.00
12DL8	2.00
12DM4	See 12D4/12DM4
12DQ4	5.40
12DQ6-A	9.70

12DQ6B/12GW6	11.30
12DQ7	5.00
12DS7	4.85
12DT5	2.00
12DT8	7.40
12DU7	2.00
12DV7	2.00
12DV8	4.60
12DW4A	2.00
12DW7/7247	19.10
12DW7 (EI Elite gold)	12.95
12DW7 (JJ)	9.85
12DW8	4.95
12DY8	2.80
12DZ6	5.90
12EA6/12EK6	5.00
12EC8	3.20
12ED5	2.50
12EG6	4.95
12EH5	See 12CA5/12EH5
12EK6	2.90
12EL6	2.85
12EM6	2.50
12EN6	2.00
12EQ7	2.85
12EZ6	4.95
12F5GT	2.85
12F8	2.00
12F60 (delay relay)	14.95
12FK6	1.40
12FM6	1.80
12FQ7	6.70
12FQ8	8.80
12FR8	11.40
12FV7	5.00
12FX5	2.00
12FX8A	2.95
12G4/12H4	5.60
12GA6	3.00
12GB3	5.30
12GB7	8.80
12GC6	2.00
12GE5	3.50
12GJ5A	5.90
12GN7A/12HG7	6.20
12GT5	3.25
12GW6	See 12DQ6B/12GW6
12H4	See 12G4
12H6	3.50
12HB25	8.60
12HE7	2.00
12HG7	See 12GN7A/12HG7
12HL7	3.00
12J5GT	3.40
12J7GT	3.00
12J8	2.00
12JB6A	20.00
12JF5	15.80
12JN6-A	4.95
12JN8	2.75
12JQ6	4.50
12JT6A	6.00
12JZ8	7.60
12K5	3.60
12K7G	5.50
12K7GT	4.00
12K8	2.00
12K8GT	3.25
12KL8	2.00
12L6GT	2.95
12L (ballast)	12.70
12MD8	5.55
12N03T (delay relay)	14.95
12N05 (delay relay)	Call
12N05T (delay relay)	14.95
12N010 (delay relay)	Call
12N015T (delay relay)	Call
12N030 (delay relay)	Call
12N030T(delay relay)	14.95
12N045T(delay relay)	14.95
12N090 (delay relay)	Call
12Q7G	3.50
12Q7GT	3.10
12R5	2.00
12RK19	See 12BR3
12S7/W142	4.70
12S8GT	2.85
12SA7	5.90
12SA7GT	4.60
12SC7	2.65
12SF5	3.60
12SF5GT	2.60
12SF7	5.20
12SG7	5.00
12SH7	3.00
12SJ7	3.30
12SJ7GT	5.60
12SK7	4.60
12SK7GT	4.90
12SL7GT	4.70
12SN7GT-A-B	7.80
12SQ7	7.00
12SQ7GT	6.90
12SR7/12SW7	3.80
12SR7GT	4.90
12SW7	See 12SR7/12SW7
12SX7GT	25.25
12SY7	6.90
12T10	4.00
12U7	4.60
12V6GT	4.80
12W6GT	2.00
12X3	8.00
12X4	2.90
12Z3	2.80
12Z5	See 6Z5/12Z5
13A (ballast)	11.40
13B (ballast)	11.40
13C (ballast)	11.40
13CW4	19.10
13D1	6.70
13D (ballast)	11.40
13DE7	2.85
13DR7	2.50
13E (ballast)	11.40
13EM7/15EA7	4.00
13FD7	1.60
13FM7/15FM7	3.00
13GB5/XL500	3.00
13G (ballast)	11.40
13GF7A	8.50
13J10/13Z10	4.00
13J (ballast)	12.70
13JZ8-A	3.00
13L (ballast)	11.40
13R (Ballast)	12.70
13S (ballast)	Call
13V10	2.00
13Z10	See 13J10/13Z10
14A4	5.00
14A5	5.00
14A7	See 12B7/14A7
14A (ballast)	11.40
14AF7/XXD	5.90
14B6	5.70
14B8	2.00
14BL11	3.00
14BR11	4.00
14C5	3.40
14C7	3.20
14E6	5.65
14E7	4.15
14F7	4.70
14F8	4.30
14G6/UBC81	3.80
14GT8/14JG8	2.90
14GW8/PCL86	4.60
14H7	3.30
14J7	3.20
14JG8	See 14GT8/14JG8
14K7	4.25
14L7/UBC41	4.40
14N7	3.50
14Q7	3.40
14R7	3.40
14S7	3.20
14 (ST)	6.10
14W7	2.10
14Y4	5.50
15	22.90
15A6/PL83	2.50
15AF11A	2.00
15B (ballast)	Call
15BD11A	3.00
15CW5/PL84	3.00
15DQ8/PCL84	3.00
15E	Call
15EA7	See 13EM7/15EA7
15EW6	3.00
15EW7	3.30
15FM7	See 13FM7/15FM7
15FY7	3.00
15HB6	3.00
15KY8A/17DL8	3.00
15LE8	2.00
15MF8	7.80
15R	18.80
16-4 (ballast)	11.40
16A8/PCL82	8.00
16AK9	4.50
16AQ3/XY88	2.00
16BQ11	2.00
16BX11	2.00
16CB28	7.20
16GK6	2.00
16GY5	3.00
16KA6	5.00
16LU8A	4.60
16Y9	8.50
17A8/19EA8A	2.75
17AB10/17X10	5.30
17AV5GA	3.00
17AX3	2.00
17AX4GTA	2.00
17AY3/17BS3A	2.00
17BB14	5.60
17BE3/17BZ3	2.00
17BF11	3.50
17BH3	4.70
17BQ6GTB	2.00
17BR3/17RK19	3.00
17BS3A	See 17AY3/17BS3A
17BW3	5.60
17BZ3	See 17BE3/17BZ3
17C5/17CU5	2.00
17C8/UBF80	3.60
17C9	7.00
17CK3	3.00
17CT3	2.60
17CU5	See 17C5/17CU5
17D4A/17DM4A	2.00
17DE4	2.00
17DE5	2.90
17DL8	See 15KY8A/17DL8
17DM4A	See 17D4A/17DM4A
17DQ6B/17GW6	5.80
17DW4A	2.50
17EW8/HCC85	3.40
17GE5	3.00
17GJ5-A	3.00
17GT5A	3.00
17GV5	3.00
17GW6	See 17DQ6B/17GW6
17H3	2.00
17HB25	5.00
17JB6A	9.70
17JF6	7.90
17JG6-A	7.50
17JK8	2.00
17JM6	5.00
17JN6	3.00
17JQ6-A	9.30
17JT6A	4.95
17JZ8	7.30
17KV6A	8.60
17KW6/PL508	9.40
17L6GT	5.60
17LD8	8.60
17R5	4.40
17RK19	See 17BR3/17RK19
17W6GT	2.00
17X10	See 17AB10/17X10
17Y9	9.50
17Z3/PY81	2.85
18A5	2.00
18AJ10	2.00
18DZ8	8.00
18FW6A	2.00
18FX6A	2.85
18FY6-A	2.75
18GB5	5.00
18GD6A	3.40
18GV8/PCL85	3.50
18RAL1	2.00
19	6.20
19AU4GTA	2.00
19AU4	See 19AU4GTA
19BG6G-GA	5.60
19BY7/UF85	3.50
19C8	2.85
19CG3	3.00
19CL8A/19JN8	3.40
19D8/UCH81	3.20
19DE3	3.00
19DK3	5.10
19DQ3	3.00
19EA8A	See 17A8/19EA8A
19EZ8	3.05
19FL8/UBF89	2.80
19FX5	4.80
19GQ7	2.85
19HR6	2.85
19HS6	5.60
19HV8	5.70
19J6	2.70
19JN8	See 19CL8A/19JN8
19KG8	2.95
19MR9	3.60
19Q9	1.60
19T8	6.70
19V8	4.50
19X3	3.00
19X8	2.90
20-4 (ballast)	11.40
20AQ3/LY88	4.85
20EZ7	5.60
20LF6	62.40
21A6/21B6	5.70
21B6	See 21A6/21B6
21B (ballast)	11.40
21EX6	4.30
21GY5	5.20
21HB5A	11.80
21HJ5	17.70
21JS6A/23JS6	21.10
21JV6	3.00
21JZ6	8.10
21KA6	13.20
21KE6	4.80
21KQ6	7.45
21LG6A	8.20
21LR8	7.70
21LU8	8.50
22	9.60
22-4 (ballast)	12.70
22BH3A	2.70
22BW3	4.40
22DE4	3.00
22JF6/22KM6	9.20
22JG6A	9.30
22JR6	6.10
22JU6	3.80
22KM6	See 22JF6/22KM6
22KV6A	7.10
23-55-E (ballast)	Call
23-55F (ballast)	12.70
23JS6	See 21JS6A/23JS6
23Z9	4.00
24A	11.90
24BF11	2.00

24JE6A	10.90
24JE6C/24LQ6	21.60
24JZ8	2.50
24LQ6	
See 24JE6C/24LQ6	
25A6	4.90
25A6G	4.10
25A6GT	4.70
25A7GT	5.30
25AC5G	8.50
25AC5GT	4.20
25AV5GA	7.00
25AV5GT	3.50
25AX4GT	2.00
25BB14	3.90
25BK5	2.00
25BQ6GT	2.00
25BR3/U329	4.80
25C5	5.70
25CA5	3.90
25CD6GB	6.20
25CG3	6.75
25CK3	3.50
25CT3	2.00
25CU6	4.60
25DK3	2.00
25DK4	3.00
25DL3	8.50
25DN6	2.00
25DQ6A	3.40
25E5/PL36	5.60
25EC6	5.60
25EH5	3.15
25F5	2.00
25HX5	6.75
25JZ8	8.00
25L6	7.50
25L6GT/25W6	5.40
25T/HK-24	60.90
25W4GT	2.00
25W6 See 25L6GT/25W6	
25W6GT	4.50
25Y5	3.60
25Z5	4.10
25Z6GT	4.00
26A6	5.90
26A7GT	7.90
26AQ8/UCC85	4.00
26C2T (delay relay)	14.95
26C3T (delay relay)	Call
26C5 (delay relay)	Call
26C6	6.70
26C8T (delay relay)	Call
26C30T (delay relay)	14.95
26C120 (delay relay)	Call
26C150(delay relay)	14.95
26D6	5.60
26E6WG	5.80
26HU5	22.30
26LW6	20.40
26LX6	19.80
26N02T (delay relay)	14.95
26N03 (delay relay)	14.95
26N03T (delay relay)	14.95
26N05T (delay relay)	14.95
26N010T (delay relay)	Call
26N015(delay relay)	14.95
26N060 (delay relay)	Call
26 (ST)	19.80
26Z5W	10.00
27BL8/UCF80	4.80
27GB5/PL500	5.70
27LF6	50.20
27 (ST)	11.00
28D7-W	6.00
29GK6	3.15
29KQ6	6.00
29LE6	11.90
30	18.40
30AE3/PY88	4.00
30AG11	2.00
30JZ6	14.50
30KD6	28.60
30MB6	12.50
30 Special	49.10
31	15.40
31A3/UY41	7.40
31AL10	5.30
31JS6A	15.40
31JS6C	15.90
31LQ6	16.80
31LR8	4.00
31LZ6	18.20
32	6.70
32ET5A	3.00
32HQ7	4.50
32L7GT	4.55
33	6.30
33GT7	3.00
33GY7A	5.50
33JR6	8.40
33JV6	2.50
34	4.50
34CD3/34CE3	2.00
34CE3See 34CD3/34CE3	
34DK3	4.00
34GD5A	2.95
34R3	2.00
35-51	5.40
35A3	8.80
35A5	5.00
35B5	2.95
35C5	3.40
35D5	6.10
35DZ8	5.00
35EH5	3.00
35GL6	3.90
35HB8	2.00
35L6GT	5.30
35LR6	19.10
35T	102.10
35TG	Call
35W4	6.80
35Y4	3.80
35Z3	4.30
35Z4GT	3.40
35Z5GT	5.40
35Z6G	7.60
36	6.30
36AM3B	2.85
36KD6/40KD6	23.40
36LW6	Call
36MC6	21.40
37	7.00
38	4.25
38A3/UY85	3.40
38HE7/38HK7	8.70
38HK7See 38HE7/38HK7	
39-44	3.20
40A1 (ballast)	11.40
40B2 (ballast)	11.40
40KD6See 36KD6/40KD6	
40KG6A/PL519	16.30
40 (ST)	Call
41 (ST)	13.90
42EC4-A	4.00
42KN6	9.30
42 (ST)	20.10
43	7.10
45	80.00
45-4001 (ballast)	Call
45A5/UL41	19.10
45B5/UL84	4.60
45 SPECIAL	Call
45 Special (WE)	Call
45Z3	1.40
45Z5GT	4.10
46 (ST)	21.80
46B1 (ballast)	11.40
47 (ST)	21.60
48	18.40
49	11.80
50A1/D5TF30 (ballast)	Call
50A1TR (solid state repl. for 50A1)	16.90
50A2 (ballast)	Call
50A5	3.40
50B2 (ballast)	12.70
50B5	2.85
50BM8/UCL82	5.80
50C5	4.30
50C6G	4.10
50DC4	3.25
50EH5	4.70
50FA5/50FK5	2.80
50FE5	3.70
50FK5 See 50FA5/50FK5	
50GY7	8.60
50HC6	3.00
50HK6	3.40
50HN5	8.50
50JY6	5.60
50L6GT	6.70
50N0120(delay relay)	Call
50N0180(delay relay)	Call
50 (ST)	Call
50X6	3.60
50X300 (ballast)	12.70
50Y6GT	3.20
50Y7GT	4.30
52-42D (ballast)	12.70
53	9.10
53HK7	7.30
55	5.70
56	6.20
57	5.40
58	7.30
59	13.70
60FX5	3.40
65	5.60
70L7GT	4.60
71A (ST)	37.40
72	4.30
73	5.60
75C1	10.70
75 (ST)	17.20
75TL	Call
76 (ST)	14.60
77	4.00
78	5.70
79	4.10
80 (ST)	22.60
80 (tubular)	13.80
81 (ST)	Call
82 (ST)	Call
83	26.30
83V	16.10
84	See 6Z4/84
84M	9.35
85	4.30
85A1	See 0E3/85A1
85A2	See 0G3/85A2
89Y	4.00
90C1	6.70
95A1	3.00
100-79 (ballast)	12.70
100TH	Call
101F (WE)	Call
101L (WE)	Call
101M (WE)	Call
102-A	86.00
102F	Call
102L (WE)	Call
112A	Call
114B	3.60
115C2 (delay relay)	14.95
115C3 (delay relay)	14.95
115C3T (delay relay)	14.95
115C5 (delay relay)	14.95
115C5T (delay relay)	14.95
115C10 (delay relay)	14.95
115C15(delay relay)	14.95
115C15T(delay relay)	14.95
115C29T(delay relay)	14.95
115C30 (delay relay)	14.95
115C30T(delay relay)	14.95
115C45 (delay relay)	14.95
115C45T(delay relay)	14.95
115C60T(delay relay)	14.95
115C90 (delay relay)	14.95
115C90T(delay relay)	14.95
115C120(delay relay)	14.95
115C120T (delay relay)	14.95
115C180(delay relay)	14.95
115F60T(delay relay)	14.95
115N02T (delay relay)	14.95
115N03 (delay relay)	14.95
115N03T(delay relay)	14.95
115N05 (delay relay)	14.95
115N05T(delay relay)	14.95
115N07T(delay relay)	14.95
115N08(delay relay)	14.95
115N010(delay relay)	14.95
115N010T (delay relay)	14.95
115N020(delay relay)	14.95
115N030(delay relay)	14.95
115N030T(delay relay)	14.95
115N045 (delay relay)	Call!
115N045T (delay relay)	14.95
115N060 (delay relay)	14.95
115N060T (delay relay)	14.95
115N075T (delay relay)	14.95
115N090T (delay relay)	14.95
115N0120T (delay relay)	14.95
117L7	6.00
117N7GT	6.90
117P7GT	5.10
117Z3	5.30
117Z4GT	4.60
117Z6GT	6.00
120	45.90
120A (ballast)	11.40
121B (ballast)	11.40
122A (ballast)	12.70
123A (ballast)	Call
124A (ballast)	12.70
125A (ballast)	12.70
150B2	7.20
150B3	6.70
150C2 See 0A2/150C2	
150C4	2.90
160L See 572B/160L-US	
171-A	70.00
185BTA	10.70
200R (ballast)	12.70
201A-RG (solid state repl. for X201)	22.50
203A	119.20
210	Call
211/VT-4C	195.50
211-4 (ballast)	11.40
213A	31.80
215A	Call
222	Call
224	16.60
226	28.30
227	34.80
235/251	12.30
245	Call
246	73.60
247	Call
250	Call
250R	Call
250TH	Call
256	34.50
257A (WE)	47.80
262A-B (WE)	Call
272A (WE)	140.20
274A (WE)	Call
275A (WE)	227.90
280	Call
281	Call
291A	8.10
297A (WE)	8.80
300B (WE)	829.30
300B (JJ)	84.90
300B (Valve Art)	69.85

304TH	Call
304TL	Call
307A	11.50
309 (WE)	Call
310A-B	31.20
310A-B (WE)	Call
311A-B (WE)	43.50
311B	27.60
313CA (ballast)	13.30
313C-CA	4.60
313CC (ballast)	11.00
316A	Call
320R4 (ballast)	12.70
323A-B	10.40
328A	12.20
328A (WE)	48.10
329A (WE)	Call
331A	See 805/331A
336A	16.60
337A (WE)	65.60
338A (WE)	10.40
346C (WE)	15.60
350B	Call
350B (WE)	Call
352A (WE)	52.00
353A (WE)	9.30
354A (WE)	35.90
355A	25.80
368AS	11.10
371B	22.40
374A (WE)	16.60
375A (WE)	18.60
377A (WE)	18.40
381A (WE)	18.80
386A	10.40
393A	26.50
394A	19.10
395A	14.40
396A/2C51 (WE)	25.20
396A/2C51	5.70
398A (WE)	27.00
399A-B	11.30
400A-B	11.50
401A	See 5590/401A
402A	18.40
403A (WE)	11.90
403B	See 5591/403B
404A	See 5847/404A
407A	6.25
408A	See 6028/408A
409A	5.85
412A/6754	8.30
412A (WE)	48.50
413B	23.90
415A	4.25
416B/6280	19.60
416C	16.60
417A (WE)	Call
418A	Call
420A (WE)	67.40
421A (WE)	70.70
422A (WE)	Call
423A-B	8.80
423C	9.80
425A (WE)	15.60
426A	7.40
427A	5.45
429A	Call
430C (WE)	8.00
432B (WE)	6.10
435A (WE)	36.40
443A (WE)	7.20
446A	7.20
451	See 8020/451
453A (WE)	5.35
464	See 2C44/464
464A	See 2C43/464A
481B	63.50
484	47.80
485	Call
485 (ST)	14.00
501 (delay relay)	14.95
502A	12.20
510AX	14.60
512AX	Call
520A	See 5755
522AX	See 6088
526AX	8.60
532A	See 1B32/532A
533AX	10.40
534AX	9.60
543	15.30
547DX	11.20
548DX	See 6418/548DX
572B/160L (US)	Call
573AX	See 6029
574AX/6281	10.70
576	111.30
578	See 8020/451
579B	31.60
592	See 3-200A3/592
604/7014	139.20
604L/7015	106.60
606/7016	83.20
610/7723	Call
615/7018	Call
619	39.70
627	119.20
629	86.70
631P1/SN4	39.70
632B	100.80
635/7019	61.20
635L/7020	102.10
635P	72.90
643	59.30
649	See 5834
672A	Call
673	48.60
702A	11.90
703A	Call
705A	11.30
707B	See 2K28/707B
709A	20.10
710/6011	Call
710L/7509A	90.30
713A	5.10
714/7021	53.40
715A-B-C	79.50
716/6855	68.40
717A	18.70
719A	4.95
723A-B	Call
724B	16.80
734/5544	135.50
734L	92.80
740L	142.10
760/6858	124.80
770L	Call
800	Call
801-A	103.00
802	12.50
803	28.60
805/331A	106.10
807	16.20
807 (China)	9.95
807W	See 5933/807W
808	Call
809	41.30
810	127.90
811A (China)	12.75
811A (US)	43.90
812A (China)	17.95
812-A	62.50
813	Call
814	23.90
815	Call
816	24.90
826	41.10
828	69.70
829B/3E29	18.30
830B	Call
832A	8.80
834	Call
836	Call
837	8.40
838	Call
841	32.80
843	39.20
845	Call
845 (Valve Art)	44.85
860	Call
864	38.70
865	19.10
866A	20.70
866AX	19.10
866JR	Call
868/PJ23	16.80
872-A	57.20
874 (ST)	9.80
876 (ballast)	26.50
878A	14.10
879	See 2X2A/2Y2/879
884	8.00
885	5.60
918/CE-1C	20.90
919	23.50
920	15.00
921	5.25
922	28.00
923	20.80
924	See 1P41/924
925	19.10
926	21.20
927/CE25C-D	24.40
929	Call
930	9.40
931A-B	38.50
932/1229	4.80
934	34.90
950 (ST)	20.30
951	See 1B4-T/951
954	6.45
955	4.70
956	8.90
957	4.00
958	7.40
959	8.60
991	3.20
1005	13.70
1007	2.90
1026	18.00
1038	See 6438/1038
1201	See 7E5/1201
1203A	See 7C4/1203A
1217	2.85
1218A	See 8334
1229	See 932/1229
1231	See 7V7/1231
1232	See 7G7/1232
1236	19.30
1237	38.90
1252	See 6KD8/6U8A
1259	4.60
1273	5.60
1274	8.00
1275	22.60
1280	9.40
1294	See 1R4/1294
1299	See 3D6/1299
1603	Call
1609	8.70
1612	5.40
1613	7.80
1614	32.00
1616	7.20
1619	9.60
1620	9.90
1621	10.10
1622	Call
1624	18.10
1625	5.00
1626	4.40
1629	9.90
1630	11.30
1632	5.60
1635	5.00
1641/RK60	8.60
1642	See 2C21/1642
1649	7.40
1659A	9.40
1698	Call
1851	8.10
1852	See 6AC7/1852
1853	See 6AB7/1853
2033	6.20
2050 (ST)	16.80
2050A (tubular)	18.70
2050W	16.50
2051	12.30
3533	8.50
4001	11.60
4042	23.90
4043	40.00
4046-A	35.90
4049D	See AH221/CV5
4062A	79.50
4121A (ballast)	18.00
4621	66.20
4652	See 8042/4652
4657	See 8072
5092/8421	26.50
5442A	Call
5514	30.90
5516	14.10
5517	14.40
5544	See 734/5544
5545	Call
5558/FG-32	53.00
5559/FG-57	47.80
5560/FG-95	71.80
5561/FG-104	Call
5581	16.50
5582	32.60
5590/401A	5.00
5591/403B	11.90
5608A	32.90
5610	5.70
5632	See C3J/5632
5636	7.40
5638	10.40
5639	11.60
5641	10.70
5642	7.40
5643	10.70
5644	19.10
5647	16.20
5651A	3.20
5653	13.10
5654/6AK5W	3.60
5656	15.60
5659	2.85
5660	2.85
5661	5.60
5662	4.60
5663	2.00
5664	See C1B-A/5664
5670/2C51W	4.00
5672/DL69	5.10
5675	42.50
5676	4.00
5678	3.15
5679	8.60
5685	See C6J-K/5685
5686	8.30
5687(JAN ECG only)	3.80
5687 (other)	8.50
5691 (black/brown base)	25.00
5691 (red base)	44.50
5692 (black/brown base)	Call
5692 (red base)	79.00
5693	14.60
5694	11.00
5696-A	4.00
5702	11.30
5703	8.50
5704	8.50
5718-A/EC70	8.00
5719	Call
5721/QK209	91.50
5722	15.40
5725/6AS6W	2.00
5726/6AL5W	3.00
5727	2.70
5744/6151	11.60

5749/6BA6W	3.40
5750/6BE6W	3.80
5750CS	Call
5751 (GE JAN only)	9.80
5751 (other)	15.00
5755/520A	8.30
5763	10.90
5767	72.90
5783	4.00
5784	3.00
5785	4.80
5787	Call
5796	35.90
5814A	5.20
5820	Call
5823/Z900T	26.00
5824	15.90
5825	92.80
5829	7.00
5834	41.20
5836	Call
5837	173.00
5839	7.00
5840/6225	10.70
5841	5.70
5842/417A	11.90
5842	See 5842/417A
5844	3.10
5845	4.70
5847/404A	19.30
5852	Call
5855	Call
5857	59.70
5861/EC55	95.70
5876A	23.90
5877	86.10
5879	10.10
5881 (Sovtek)	9.75
5881 (Tung Sol)	55.10
5881/6L6WGB	27.80
5881/6N3C-E (Russia)	8.95
5881WXT (Sovtek)	10.95
5886	74.90
5889	47.80
5893	60.90
5894/AX9903	61.40
5895	35.90
5896	4.50
5899	9.50
5901	See 5840/6225
5902	7.20
5903	4.70
5904/6055	17.20
5905	16.50
5907/6056	6.55
5908	13.80
5915	2.00
5920/E90CC	8.60
5931/5U4WG	30.90
5932	33.20
5933/807W	16.60
5947	9.20
5961	63.70
5962	2.80
5963/12AU7A	4.90
5964	1.80
5965-A	3.35
5977	8.40
5979	53.40
5980	39.70
5987/SC968B	15.20
5991	See 8422/5991
5993	6.30
5998	Call
5998A	Call
6000	34.80
6000 (ballast)	Call
6005/6AQ5W	5.85
6007	6.40
6011	See 710/6011
6012	83.20
6014	See C1K/6014
6021	3.00
6026	10.40
6028/408A	1.60
6029/573AX	7.40
6038	See 1B35A/6038
6045	10.20
6050	7.00
6055	See 5904
6056	See 5907
6060/ECC801	12.50
6062/M8096	8.50
6064	4.30
6072-A	19.95
6073	5.60
6074	4.80
6080	8.40
6080WC	9.20
6082-A	15.60
6083/AX9909	130.00
6084/E80F	34.40
6085/E80CC	54.40
6086	9.40
6087/5Y3WGTB	13.20
6088/522AX	8.80
6095	5.60
6096	See 5654/6AK5W
6097	See 5726/6AL5W
6098/6AR6WA	Call
6099	4.25
6100/6C4WA	4.10
6100 (ballast)	12.70
6101/6J6WA	2.00
6106/5Y3WGT	9.40
6110	8.60
6111	7.00
6112	Call
6115A	Call
6118	4.20
6130	See 3C45/6130
6132	See CV4055/6132
6134/6AC7WA	8.30
6135	3.80
6136/6AU6WA	3.80
6137/6SK7WA	6.00
6140	8.80
6143	12.50
6144	10.70
6145	10.20
6146-A	20.80
6146B/8298A	30.70
6146B (China)	16.95
6146W/7212	24.30
6151	See 5744/6151
6153	14.00
6155	99.80
6159A	7.60
6159B	18.20
6161	37.30
6167	30.50
6173	28.60
6177A	Call
6186/6AG5WA	5.60
6188	See 6SU7GTY/6188
6189/12AU7WA	10.40
6197	2.50
6199	Call
6201/12AT7WA	8.20
6202/6X4WA	4.25
6203	9.90
6205	5.20
6206	15.90
6211A	4.40
6213	8.40
6216	7.40
6217	Call
6218	31.90
6225	See 5840/6225
6227/E80L	42.10
6247	12.60
6252	47.80
6263A	41.60
6264	75.00
6265	6.10
6267/EF86	34.60
6278	41.60
6280	See 416B
6293	23.90
6299	70.00
6303A	Call
6322	12.50
6328	46.90
6336-A-B	55.10
6342A	173.00
6350	7.80
6354	11.90
6360-A	8.80
6374/EY84	11.30
6384	Call
6386	Call
6397	7.90
6414	11.00
6417	7.20
6418/548DX	12.50
6438/1038	8.40
6442	63.50
6463	4.40
6476A	38.20
6481	72.90
6483	9.40
6485/6AH6WA	2.00
6489/EA76	8.80
6508	Call
6519	8.10
6520	See 6AS7G/6520
6524	9.30
6528-A	71.80
6533	Call
6542	33.30
6550-A (US)	51.00
6550 ST (US)	Call
6550A (Valve Art)	17.85
6550ST (China)	16.95
6550C (Winged C)	24.70
6570	71.80
6611	5.70
6626/0A2WA	3.60
6627/0B2WA	4.85
6628	5.20
6660/6BA6	3.80
6661/6BH6	6.75
6662/6BJ6	5.60
6663/6AL5	2.00
6664/6AB4	3.05
6669/6AQ5A	3.60
6676/6CB6A	2.00
6677/6CL6	3.20
6678/6U8A	4.95
6679/12AT7	9.60
6680/12AU7A	5.90
6681/12AX7A	17.60
6686/E81L	7.20
6687/E91H	7.30
6688/E180F	9.40
6688_E180F(gold pin)	10.90
6689/E83F	12.10
6754	See 412A/6754
6761	9.60
6775	See 4-400C/6775
6777	81.60
6779/Z803U	98.20
6788	2.85
6802	Call
6807	149.60
6814	3.15
6816	66.20
6829	10.70
6832	4.00
6842	32.60
6844A	30.40
6850	33.30
6855	See 716/6855
6858	See 760/6858
6872	11.90
6877	66.20
6883B/8552	19.60
6884	74.30
6887	11.20
6888	9.65
6907	73.40
6909	Call
6910	18.70
6919	3.00
6922/E88CC	9.30
6922/E88CC (JJ)	8.65
6922 (Sovtek)	11.95
6923/EA52	57.20
6939	28.00
6948	20.00
6957	9.40
6973	49.95
6977/DM160	13.60
6989/C6J-KL	Call
7000 (ballast)	Call
7009	64.30
7014	See 604/7014
7015	See 604L/7015
7016	See 606
7018	See 615/7018
7019	See 635/7019
7020	See 635L/7020
7021	See 714/7021
7022	See 770L
7025	27.00
7027-A	55.10
7027A (JJ)	18.85
7034	See 4X150A/7034
7035	See 4X150D/7035
7036	7.10
7044	8.30
7054/8077	4.70
7055	3.60
7056	6.55
7057	4.80
7058	6.70
7059	5.60
7060	3.00
7061	4.70
7062/E180CC	8.50
7077	Call
7094	Call
7117	29.90
7119/E182CC	15.40
7153	26.50
7163	9.45
7167	4.00
7189-A	38.20
7193	See 2C22/7193
7199	28.60
7199 (Sovtek)	15.95
7203	See 4CX250B/7203
7212	See 6146W/7212
7233	12.20
7234	77.00
7235	131.00
7236	40.30
7239	52.00
7247	See 12DW7/7247
7258	2.00
7271	119.20
7289/2C39A	36.10
7296	Call
7308/E188CC	Call
7316	30.30
7320/E84L	20.00
7322	Call
7327	10.60
7355	21.30
7360	49.10
7363	73.60
7370	9.40
7377/QQE04-5	57.20
7403/3D21WB	Call
7408/6V6GT	Call
7410	15.30
7427	3.15
7475	2.00
7486	Call
7509A	See 710L/7509A
7533	Call
7534/E130L	45.80
7536	5.60
7543/E130LF	4.00
7550	7.20

7551 8.50
7554 52.00
7558 9.00
7580 See 4CX250R/7580
7580W See 4CX250R/7580
7581A/KT66 Call
7586 30.90
7587 36.20
7591A 70.00
7591A (Electro-Harmonix) 24.95
7609 79.50
7643/E80CF 27.30
7683 9.40
7687 30.60
7693 11.50
7695 4.80
7698 26.50
7699 19.10
7701 4.00
7703 59.50
7716 4.00
7717 4.00
7721 6.90
7722/E280F 18.80
7723 See 610/7723
7723NE Call
7724 5.00
7732 4.70
7734 See 6GE8/7734
7735A Call
7735B 126.20
7737/E186F 15.90
7738 9.40
7751/E235L 34.70
7768 107.10
7788/E810F 32.40
7801 Call
7815-AL 62.40
7854 92.80
7868 46.00
7894 27.00
7895 13.20
7898 7.90
7902 See 734L
7905 14.00
7983 33.30
7984 13.50
8000 Call
8005 168.50
8008 Call
8011 59.70
8013-A 33.30
8016 8.00
8020/451 58.10
8025-A Call
8032A See 6883B/8552
8042/4652 11.30
8056 22.90
8058 47.70
8068 63.80
8072 155.00
8077 See 7054
8084 7.45
8100 3.20
8102 2.00
8106 12.20
8113/6CY5 49.70
8116 173.00
8121 100.80
8136 3.40
8156 18.70
8165 See 4-65A/8165
8167 See 4CX300A/8167
8168 Call
8203 24.50
8223/E288CC 35.00
8226 Call
8228/ZZ1000 8.80
8233/E55L 43.50
8245 See 4CX250K/8245
8252 See 4PR60B/8252
8255/E88C 14.40
8298A See 6146B/8298A
8322 See 4CX350F/8322
8334/1218A 3.35
8393 14.10
8416 14.40
8417 55.10
8421 See 5092/8421
8422/5991 29.90
8425A/6AU6A 4.90
8426 5.20
8438 See 4-400A
8445 2.75
8458/YL1240 45.90
8462 198.60
8463 20.80
8475A 13.20
8477A 13.20
8502 13.20
8505A 79.50
8509 126.20
8532 3.00
8552 See 6883B/8552
8556/EC8010 Call
8560A Call
8562 See 8255/E88C
8595 46.40
8596 69.00
8608 28.60
8624 203.30
8627 26.80
8643 126.90
8683 53.00
8727 Call
8753 53.00
8843 Call
8906 92.80
8930 Call
8950 91.50
8964 66.20
8965 23.90
9001 5.90
9002 5.70
9003 5.60
9004 5.60
9005 10.20
9006 2.50
17241 86.10
18042 See 6086
18046 7.10
38142 See 45-SPECIAL
186892-9 (ballast) Call
A22D Call
A2134 8.00
A2293 15.30
A2521 20.80
AC701 Call
AH221/CV5 5.60
AP1260 (ballast) 12.70
AX9903 See 5894/AX9903
AX9909 See 6083/AX9909
AZ11 7.10
AZ41 9.50
B5991 See 8422/5991
BH Call
BK30D (ballast) 12.70
BK42DG (ballast) 11.10
BK55B (ballast) 12.70
BKV51DJ (ballast) 12.70
BL49DG (ballast) 12.70
BR 15.30
C1A 92.00
C1B-A/5664 26.00
C1J-A See C1K/6014
C1K/6014 103.00
C3J/5632 53.40
C3J-L Call
C6J/5C21 40.60
C6J-A Call
C6J-K/5685 99.40
C6J-KF 99.40
CAA-322 44.20
CE-1C See 918/CE-1C
CE25C See 927/CE25C-D
CE25D See 927/CE25C-D
CK1121 17.60
CK1123 20.00
CR400-5 (ballast) Call
CV5 See AH221/CV5
CV136 See 6AM5/EL91
CV450 See 6CN6
CV2225 See 150B2
CV2486 19.80
CV2721 See 6CJ6/EL81
CV4055/6132 5.85
CV5331 See 6ES8/ECC189
DAF40 8.80
DAF41 8.00
DAF91 See 1S5/DAF91
DAF96 See 1AF5/1AH5
DCC90 See 3A5/DCC90
DF63 4.10
DF91 See 1T4/DF91
DF92 See 1L4/DF92
DF96 See 1AF4/1AJ4
DF97 See 1AN5
DG7-32 93.60
DG1672 Call
DK40 12.30
DK91 See 1R5/DK91
DL69 See 5672/DL69
DL92 See 3S4/DL92
DL94 See 3V4/DL94
DL96 See 3C4/3E5/DL96
DL98 See 3B4/DL98
DLL101 12.30
DM160 See 6977/DM160
DR2000 14.40
DR2010 Call
DR2020 11.30
DR2100 16.30
DR2110 10.00
DR2120 9.00
DY51 See 1BG2/DY51
DY80 See 1BX2/1X2-B-C
DY86 See 1S2-A/DY87
DY87 See 1S2-A/DY87
DY802 See 1BQ2/DY802
E34L (JJ) 9.85
E34L (JJ, blue glass) 11.85
E34L S (Groove Tube, matched pair) 39.95
E55L See 8233/E55L
E80CC See 6085/E80CC
E80CF See 7643/E80CF
E80F See 6084/E80F
E80L See 6227/E80L
E80T 10.50
E81L See 6686/E81L
E82CC See 6189/12AU7WA
E83F See 6689/E83F
E84L See 7320
E86C 11.90
E88C See 8255/E88C
E88CC See 6922/E88CC
E90CC See 5920/E90CC
E90F See 6BH6/E90F
E91H See 6687/E91H
E92CC 10.80
E99F See 6BJ6/E99F
E130L See 7534/E130L
E130LF See 7543/E130LF
E180CC See 7062/E180CC
E180F See 6688/E180F
E182CC See 7119/E182CC
E186F See 7737
E235L See 7751/E235L
E280F See 7722/E280F
E288CC See 8223/E288CC
E810F See 7788/E810F
E1148 3.60
EA52 See 6923/EA52
EA53 98.80
EA76 See 6489/EA76
EAA91 See 6AL5/6EB5
EABC80 See 6AK8/EABC80
EAF42 See 6CT7/EAF42
EAF801 9.00
EAM86 See 6GX8/EAM86
EB41 4.80
EB91 See 6AL5/6EB5
EBC41 See 6CV7/EBC41
EBC81 See 6BD7A/EBC81
EBC90 6.10
EBC91 See 6AV6/EBC91
EBF80 See 6N8/EBF80
EBF83 See 6DR8/EBF83
EBF89 See 6AD8/6DC8
EC55 See 5861/EC55
EC70 See 5718-A/EC70
EC80 See 6Q4
EC86 See 6CM4
EC88 See 6DL4/EC88
EC90 See 6C4/EC90
EC91 See 6AQ4/EC91
EC92 See 6AB4/EC92
EC95 See 6ER5/EC95
EC97 See 6FY5/EC97
EC900 See 6HA5/6HM5
ECC40 12.70
ECC81 See 12AT7/ECC81
ECC82 See 12AU7A/ECC82
ECC83 See 12AX7A/ECC83
ECC85 See 6AQ8/ECC85
ECC86 See 6GM8/ECC86
ECC88 See 6DJ8/ECC88
ECC91 See 6J6A/ECC91
ECC99 (JJ) 11.85
ECC189 See 6ES8/ECC189
ECC801 See 6060
ECC804 9.80
ECC808 See 6KX8/ECC808
ECF80 See 6BL8/6LN8
ECF82 See 6KD8/6U8A
ECF83 8.60
ECF86 See 6HG8/ECF86
ECF200 See 6X9/ECF200
ECF201 See 6U9/ECF201
ECF801 See 6GJ7/ECF801
ECF802 See 6JW8/ECF802
ECF804 6.20
ECH3 12.80
ECH42 See 6CU7/ECH42
ECH80 See 6AN7A/ECH80
ECH81 See 6AJ8/ECH81
ECH83 See 6DS8/ECH83
ECH84 See 6JX8/ECH84
ECH200 See 6V9
ECL80 See 6AB8
ECL82 See 6BM8/ECL82
ECL84 See 6DX8/ECL84
ECL85 See 6GV8/ECL85
ECL86 See 6GW8/ECL86
ECL113 10.30
ECLL800 See 6KH8/ECLL800
ED500 See 6ED4/ED500
EF36 See 6J7/EF36
EF37A 12.30
EF40 6.00
EF41 See 6CJ5
EF42 7.20
EF43 13.00
EF50 3.60
EF54 11.40
EF80 See 6BX6/EF80
EF85 See 6BY7/EF85
EF86 See 6267/EF86
EF89 See 6DA6/EF89
EF91 See 6AM6/EF91
EF92 See 6CQ6/EF92
EF93 See 6BA6/EF93
EF94 See 6AU6A/EF94

EF95 See 6AK5/EF95
EF96 See 6AG5
EF97 See 6ES6/6FD6
EF183 See 6EH7/EF183
EF184 See 6EJ7/EF184
EF800 5.60
EF804 55.20
EF805S 8.30
EFL200 See 6Y9/EFL200
EFP60 11.30
EH90 See 6CS6/EH90
EK90 See 6BE6/EK90
EL1C See 3B22/EL1C
EL2 Call
EL3C See 4B24/EL3C
EL3C-L 53.00
EL6B 53.00
EL6C 66.20
EL16B Call
EL16F 92.80
EL34EH (Electro-Harmonix) 11.25
EL34/6CA7 (JJ) 9.65
EL34 / 6CA7 (Winged C) 12.70
EL38 See 6CN6
EL41 See 6CK5
EL81 See 6CJ6/EL81
EL82 See 6DY5/EL82
EL84/6BQ5 21.10
EL84/6BQ5 (EI) 6.95
EL84/6BQ5 (EI Elite gold) 9.95
EL84 S (Groove Tube, matched pair) 15.95
EL84/6BQ5 (JJ) 8.40
EL84/6BQ5 (Sovtek) 7.95
EL85 See 6BN5
EL86 See 6CW5/EL86
EL90 See 6AQ5A/6HG5
EL91 See 6AM5/EL91
EL95 See 6DL5/EL95
EL360 5.70
EL500 See 6GB5-A/EL500
EL503 See 8278
EL509 See 6KG6A/EL509
EL802 16.50
EL805 7.60
ELL80 See 6HU8/ELL80
EM34 See 6CD7/EM34
EM71 Call
EM80 See 6BR5/EM80
EM81 See 6DA5/EM81
EM84 See 6FG6/EM84
EM85 Call
EM87 See 6HU6/EM87
EM1188C 1595.00
EMM803 15.60
EY51 See 6X2
EY81 See 6R3
EY84 See 6374/EY84
EY86 See 6S2-A/EY87
EY87 See 6S2-A/EY87
EY88 See 6AL3/EY88
EY802 5.40
EZ11 Call
EZ35 See 6X5GT/EZ35
EZ40 See 6BT4/EZ40
EZ41 6.55
EZ80 See 6V4/EZ80
EZ81 See 6CA4/EZ81
EZ90 See 6X4/EZ90
FG-27A 61.40
FG-32 See 5558/FG-32
FG-57 See 5559/FG-57
FG-81A 92.80
FG-95 See 5560/FG-95
FG-104 See 5561/FG-104
FG-178-A 17.60
FM1000 8.20
G180-2M 31.80
GC10B 12.50
GS10C 63.40
GS10D 11.10
GV3A-1400 18.00
GV5A-1600 18.00
GV5A-2000 17.60
GV5A-2500 20.00
GV5A-3300 20.00
GV6A-1450 20.00
GY501 11.00
GY802 3.00
GZ34 See 5AR4/GZ34
H63 See 6F5/H63
HABC80 See 19T8
HBC90 See 12AT6/HBC90
HCC85 See 17EW8/HCC85
HCH81 See 12AJ7/HCH81
HCH81/12AJ8 11.00
HF93 See 12BA6/HF93
HK-24 See 25T/HK-24
HK90 See 12BE6/HK90
HL23/VR130 5.70
HP-45B Call
HY69 21.60
HY75 Call
HY615 12.10
K23B (ballast) 12.70
K36B (ballast) 12.70
K38B (ballast) 12.70
K49C (ballast) 12.70
K49D (ballast) Call
K72B (ballast) 12.70
K79B (ballast) 12.70
KL25E (ballast) Call
KL25H (ballast) 12.70
KL50E1 (ballast) 12.70
KL50H (ballast) 12.70
KL50S1 (ballast) 12.70
KL75 (ballast) 11.40
KL75H (ballast) 12.70
KL45 (ballast) 11.40
KT66 (GEC) 175.20
KT66 HP (Groove Tube, matched pair) 41.95
KT88 (Valve Art) 27.80
KT88 (US) Call
KT88 (JJ) 34.85
KT88 (JJ, blue glass) 38.85
KT88 (Winged C) 37.70
KT90 (EI) 34.95
KT100 (Valve Art) 29.85
KTW61 7.70
KY21A 58.20
L40CT (ballast) 12.70
L49D (ballast) 10.90
L55C (ballast) 12.70
L55D (ballast) 12.70
L67C (ballast) Call
LCF200 See 5X9/LCF200
LCF201 See 5U9/LCF201
LCF801 See 5GJ7/LCF801
LCF802 See 6LX8/LCF802
LCL84 See 10DX8/LCL84
LCL85 See 10GV8/LCL85
LF183 See 4EH7/LF183
LF184 See 4EJ7/LF184
LFL200 See 11Y9/LFL200
LL86 See 10CW5/LL86
LY88 See 20AQ3/LY88
M30H (ballast) Call
M-2057 131.00
M8083 5.30
M8096 See 6062/M8096
M8223 4.70
MC1400 9.40
N142 See 45B5/UL84
NL809 28.10
NL826 27.70
NL840/8754 Call
NL848 22.60
NL950 27.70
NL5094 92.80
NL5440 22.80
NL5870S 12.20
NL5971 Call
NL8037/5031 7.75
OM4 See 6R7G/OM4
ORP60 9.80
ORP90 9.80
PABC80 See 9AK8/PABC80
PC95 See 4GK5
PC96 8.60
PC900 See 4HA5/4HM5
PCC84 See 7AN7/PCC84
PCC85 See 9AQ8/PCC85
PCC88 See 7DJ8/PCC88
PCC89 See 7EK7/7FC7
PCC189 See 7ES8
PCF80 See 8A8/9A8/9U8
PCF82 See 8A8/9A8/9U8
PCF86 See 8HG8/PCF86
PCF200 See 8X9
PCF201 See 8U9
PCF800-30C15 11.00
PCF801 See 8GJ7/PCF801
PCF802 See 9JW8/PCF802
PCF806 See 8GJ7/PCF801
PCF808 5.50
PCH200 See 9V9/PCL200
PCL81 5.00
PCL82 See 16A8/PCL82
PCL84 See 15DQ8/PCL84
PCL85 See 18GV8
PCL86 See 14GW8
PCL800-30PL13 11.00
PFL200 See 16Y9
PJ23 See 868/PJ23
PL21 See 2D21/PL21
PL36 See 25E5
PL81 See 21A6/21B6
PL83 See 15A6/PL83
PL84 See 15CW5/PL84
PL95 11.00
PL500 See 27GB5/PL500
PL508 See 17KW6/PL508
PL519 See 40KG6A/PL519
P-P109 (ballast) 12.70
PY80 See 19X3
PY81 See 17Z3
PY83 See 17Z3
PY88 See 30AE3/PY88
PY800 2.90
PY801 2.90
QK209 See 5721/QK209
QQE03-12 See 6360-A
QQE04-5 See 7377/QQE04-5
QQV03-20A 15.50
QS92-10 See 7475
QS95-10 7.70
QS150-15 See 150B3
QS150-45 6.70
R1130B See 1B59/R1130B
R1169 Call
REL-64 9.40
RK34 See 2C34
RK60 See 1641/RK60
RK61 12.80
RX233A See 2C33/RX233A
SC968B See 5987/SC968B
SN4 See 631P1/SN4
SSR01 (ss repl. for 5AR4, 5U4, 5Y3) 9.95
STV85-10 6.70
SU2150A/VU120 5.30
SW507300 (ballast) Call
TD03-10/DET2 39.70
TJ601K01 (ballast) Call
TJ801K-1 (ballast) 11.40
TJ880 11.50
TYPE 21 (ballast) 4.70
TYPE A (ballast) 12.70
TZ-40 57.10
U329 See 25BR3/U329
UABC80 4.60
UAF42 See 12S7/UAF42
UBC41 See 14L7/UBC41
UBC81 See 14G6/UBC81
UBF80 See 17C8/UBF80
UBF89 See 19FL8/UBF89
UCC85 See 26AQ8/UCC85
UCF12 44.20
UCF80 See 27BL8/UCF80
UCH4 11.00
UCH21 5.10
UCH42 See 14K7/UCH42
UCH81 See 19D8/UCH81
UCL81 12.30
UCL82 See 50BM8/UCL82
UCL83 2.90
UF9 11.90
UF14 Call
UF41 See 12AC5/UF41
UF43 11.00
UF85 See 19BY7/UF85
UF86 26.50
UF89 See 12DA6/UF89
UL41 See 45A5/UL41
UL84 See 45B5/UL84
UM80 16.50
UM85 33.00
URB-001 (ballast) 12.70
URB-002 (ballast) 11.40
URB-003 (ballast) 11.40
URB-005 (ballast) 11.40
URB-006 (ballast) 10.90
URB-009 (ballast) 10.90
URB-010 (ballast) 11.40
UY41 See 31A3/UY41
UY82 10.80
UY85 See 38A3/UY85
V199 99.40
V201A 71.60
VP41 11.00
VR53 6.55
VR75 See 0A3/VR75
VR90 See 0B3/VR90
VR105 See 0C3-A/VR105
VR150 See 0D3-A/VR150
VT4C See 211/VT-4C
VU111S 11.00
W142 See 12S7/UAF42
WD-11 198.60
WL81A See FG-81A
X12 175.20
X66/CV1099 4.25
X101 6.55
X199 66.60
X200A Call
X201A/301A 45.50
XCF80 See 4BL8/XCF80
XF183 See 3EH7/XF183
XF184 See 3EJ7/XF184
XL86 See 8CW5-A/XL86
XL500 See 13GB5/XL500
XXB See 3C6/XXB
XXD See 14AF7/XXD
XXFM See 7X7/XXFM
XXL See 7A4/XXL
XY88 See 16AQ3/XY88
Y278 Call
Y561 53.00
YC95 See 3ER5/YC95
YL1240 See 8458/YL1240
Z66 5.60
Z803U See 6779/Z803U
Z900T See 5823/Z900T
ZM1000 30.40
ZM1001 45.60
ZM1030 31.80
ZM1032 22.00
ZZ1000 See 8228/ZZ1000

Used Tubes

01A (ST)	Call
2A3 (single plate)	Call
5AS4A/5U4GB	8.25
5R4GY/A/B	7.50
5R4WGA-B-Y	6.55
5U4G/5AS4	12.70
5V4GA	6.00
5V4G	7.30
6A7	5.60
6AC5GT	7.10
6CA7/EL34	27.90
6CA7 (European)	Call
6F6G	12.20
6HF5	7.40
6JB6A	13.90
6JE6C/6LQ6	25.20
6JS6C	23.10
6KD6	19.40
6L6G	20.80
6L6GC (RCA black plate)	Call
6L6GC	15.10
6LB6	13.90
6LF6/6MH6	39.70
6LX6	18.70
6MJ6	30.10
6SN7GT-B (full base)	13.10
6V6GT	7.00
6X5G	4.80
10 (ST)	52.00
10Y (ST)	44.70
12AX7 (Telefunken)	Call
12AX7 (Telefunken smooth plate)	Call
12BH7A	7.70
15	12.30
24A (ST)	5.30
26 (ST)	9.90
30	8.90
41 (ST)	5.70
42 (ST)	11.20
45 (ST)	35.40
46 (ST)	Call
47 (ST)	9.80
50 (ST)	Call
71A (ST)	Call
75 (ST)	8.50
76 (ST)	8.10
80 (ST)	11.20
83	13.80
171-A	43.70
210	99.40
211/VT-4C	102.30
222	11.20
224	8.00
226	13.10
227	13.10
230	19.40
232	12.10
237	26.10
239/244	6.00
240	27.30
245	Call
247	Call
250	Call
274A (WE)	Call
280	Call
311A-B	13.20
420-A (WE)	29.10
485	11.80
715A-B-C	16.00
866A	9.60
872-A	28.00
950 (ST)	10.10
5691 (red base)	26.30
5692 (black/brown base)	Call
5692 (red base)	Call
5881/6L6WGB	19.60
6080	5.80
6087	7.00
6146-A-B	11.30
6336-A-B	19.00
6550-A (US)	23.90
6550 ST (US)	47.80
7027-A	30.70
7591A	44.90
8005	90.50
8068	30.20
8950	61.40
KT88 (British)	121.50
KT88 (GEC)	149.60
V199	48.60
X199	Call
X201A/301A	23.90

Tube Boxes

Heavy plain white boxes with dividers to cushion tubes. Save 15% by purchasing 100 of any one type, save even more by the case. *Minimum order of 10 per size.*

Box Size	Fits	lbs/100	Part	each	Per 100	Case Quantity	Case Price
1" x 1" x 3" (min)	12AX7 etc.	1.0	S-B247	$0.15	$12.75	1500	$168.75
1" x 1" x 3¼" (min)	6BQ5, EL84 etc.	1.0	S-B254	.20	17.00	1500	225.00
1¼" x 1¼" x 3 11/16"	6V6GT, 6SN7, 12SK7	1.5	S-B248	.22	18.70	750	126.75
1⅝" x 1⅝" x 4 15/16"	6L6GC, thin EL34	3.0	S-B249	.28	23.80	650	136.50
1⅞" x 1⅞" x 5⅜"	45(ST), 71A, 6550A	4.0	S-B251	.30	25.50	800	180.00
2¼" x 2¼" x 6⅛"	6550, KT88, 2A3, 807	5.5	S-B252	.33	28.05	500	123.75
3" x 3" x 7"	811A, Globe 250	7.0	S-B253	.42	35.70	300	94.50

Heavy Plain Tube Boxes

No divider for larger industrial and transmitting tubes. Sold individually.

3" x 3" x 10"	S-B120	$0.65
3" x 3" x 5"	S-B121	.55
4" x 4" x 4"	S-B122	.55

Display Bases

Four Pin. Sold by the dozen

G-122 $9.84

Tube Egg Crate

15" x 15" egg crate packing boxes designed for storing tubes. Supplied unassembled.

	Cells/Size		
7 and 9 miniature	289 - ⅞" x 1¾" high	S-B123	$7.36
GT, Metal	121 - 1 5/16" x 2¾" high	S-B124	8.65
Small ST	81 - 1½" x 3" high	S-B125	8.25
Large ST	64 - 1 13/16" x 3¾" high	S-B126	6.75

Cartons for above

15" x 15" x 4"	S-B127	4.50
15" x 15" x 5"	S-B128	4.50

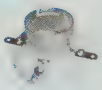
Schematic Service

We maintain a huge library of service information for early radios, TVs, tube amps and other early tube gear. Copies of early radio schematics for known makes & models are available for $8.00. TV schematics or radio schematics where make or model is unknown are available for $19.95. Contact us with your needs, we can probably provide what you're looking for.

Sockets

Listed are sockets we normally stock. Because most of our sockets are surplus and have been in storage for years, some types may show *minor* signs of corrosion and dirt buildup. **All sockets are unused.** We may run out of certain types. The figures show the *general* design and style of the socket type. Due to the many variations of sockets produced by different manufacturers over the years, sockets of the same part number may vary. If you have a specific requirement for your socket, please state this need on your order.

P-ST4-191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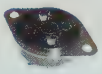
P-ST4-312

P-ST4-193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P-ST5-216

P-ST6-166

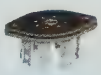
P-ST6-207M

P-ST7-151
P-ST7-202

P-ST7-156
P-ST7-157

P-ST7-158

P-ST7-201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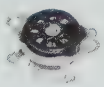
P-ST7-201MX

P-ST7-201MXB

P-ST7-202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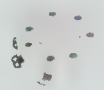
P-ST7-218

P-ST7-310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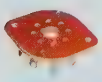
P-ST7-813

P-ST7-814

P-ST7-815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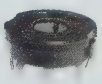
P-ST8-128
P-ST8-209W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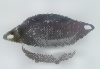
P-ST8-193

P-ST8-193G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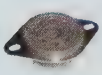
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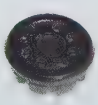
P-ST8-311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P-ST8-482

P-ST8-485

P-ST8-800

Socket	Insulator Material	Mounting: Top	Mounting: Bottom	Mounting Centers (")	Chassis Hole Dia.(")	Notes	Part	Price
4 pin - 300B/811 sizes								
bayonet	C	t		2			P-ST4-312	$4.50
plate	C		b	1 3/4		9	P-ST4-191	4.50
saddle - mip NOS	P	t	b	1 1/2	1 3/4		P-ST4-205M	5.95
4 pin - 211/845 size								
bayonet	C	t		2 3/4	-		P-ST4-192	7.95
bayonet (gold plated)	C	t		2 3/4	-	1	P-ST4-193	12.95
5 pin - 24/27 size								
plate	C		b	1 3/4			P-ST5-216	3.95
6 pin - 41/42 size								
plate NOS	C		b	1 3/4		9, 14	P-ST6-166	3.95
saddle, plate NOS	P	t		1 1/2 to 1 3/4	1 3/16		P-ST6-207M	5.25
7 pin - 6C33CB size								
plate	C		b	1 7/8 x 1 7/8		9	P-ST7-310	4.25
7 pin - 813 size								
plate	C		b	1 7/8 x 1 7/8		9	P-ST7-813	4.25
7 pin - 1625 size								
plates	C		b	1 3/4		9	P-ST7-311	4.25
7 pin miniature - 12AJ6/12AU6 size								
saddle -plate NOS	M	t		7/8	5/8		P-ST7-201MX	.75
saddle -plate NOS	M		b	7/8	5/8		P-ST7-201MXB	.75
saddle -plate NOS	P		b	7/8	5/8	2, 13	P-ST7-205L	.75
saddle -separate plate	C	t(b)		7/8	5/8	8, 10	P-ST7-814	.95
saddle -shield base NOS	M	t		7/8	5/8		P-ST7-151	.75
saddle -shield base NOS	C	t		7/8	5/8		P-ST7-202	1.75
saddle -tele. shield NOS	M	t		1 1/8	3/4		P-ST7-156	.35
saddle -tele. shield NOS	B	t		1	3/4		P-ST7-157	.35
braise -tele. shield NOS	P	t		-	23/32	7	P-ST7-158	.40
wafer NOS	P		b	1			P-ST7-201	.75
pc -snap in NOS	P	t		-	11/16		P-ST7-815	.25
pc NOS	P	t		-	.707 p n d.o		P-ST7-218	.35
wafer	P		b	7/8			P-ST7-201A	.95
8 pin - Loctal Sizes								
molded NOS	P	t		-	1.062	6, 15	P-ST8-185	2.25
molded NOS	P	t		1 1/8 to 1 1/2	1.0	8	P-ST8-325	4.95

Insulator Materials: B = Bakelite, C = ceramic, Cx = Celanex, M = Micalex, P = phenolic, Pl = plastic

Socket Notes

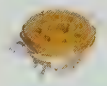
1 Gold plated contacts
2 Most have a center shield
3 Mounts to chassis with Type S socket adapter plate and/or wavy washer (sold separately on page 18)
4 Press in contact tails provide Mechanical retention prior to soldering to PC board.
5 Socket rests on shoulder of contact tail, providing an air gap for cooling. For 1/16" circuit boards with bottom circuitry.
6 Mounting hardware not available.
7 As far as we can tell, these sockets are designed to be pressed into the chassis and braised. Buy a few and try!
8 Mounting ring provided allows socket to be mounted from the top or bottom of chassis.
9 Bossed mounting holes and recessed rivets allows sub-panel mounting
10 Separate mounting ring is designed for top mounting but could be used for bottom mounting in thin gauge chassis (<0.06" thick).
11 P-ST8-800 and P-ST8-801 are identical except for contact style P-ST8-800 has split circular contacts while P-ST8-801 has split straight contacts.
12 Top or bottom soldering
13 Solder lugs
14 Wire wrap lugs
15 Keyed hole
16 Oval
17 Rectangular
18 Unique molded saddle allows for off center mounting of socket. Can be mounted closer to edge of chassis or other components
19 Crimped bracket
20 Fender® drop-in
21 Screw base
22 Relay Socket
23 No solder lugs

Socket	Insulator Material	Mounting: Top	Mounting: Bottom	Mounting Centers (")	Chassis Hole Dia.(")	Notes	Part	Price
8 pin octal - EL34/6SL7 size								
mip	P	b		1 1/2	1 1/8		P-ST8-485	$5.95
saddle - plate, black	P	b		1 1/2	1 1/8		P-ST8-209M	3.95
saddle - mip	M	t,b		1 1/2	1 3/16		P-ST8-209MIP	4.95
saddle - ring mount	C	t,b		1 7/16	1 1/16 to 1 1/4	8, 11	P-ST8-800	2.50
saddle - ring mount	C	t,b		1 7/16	1 1/16 to 1 1/4	8, 11	P-ST8-801	2.50
saddle - ring mount	C	t,b		1 7/16	1 1/16 to 1 1/4	8, 11	P-ST8-802	8.95
saddle	C	t		1 1/2	1	19, 20	P-ST8-807	5.95
saddle	Cx	b		1 1/4	1 1/8		P-ST8-808	3.95
type S NOS	P	t		1 7/		3	P-ST8-311	3.95
all molded NOS	P	b		1 1/4	1 1/16		P-ST8-482	.95
wafer NOS	P	b		1 1/2		16	P-ST8-127	2.25
wafer NOS	P	b		1 1/2		17	P-ST8-128	.95
wafer NOS	P	b		1 5/16			P-ST8-209W	.65
pc - stand-off	C	t		1	1 tail dia.	5	P-ST8-193	2.95
pc - stand-off - gold pins	C	t		1	1 tail dia	5	P-ST8-193G	3.50
pc - mount NOS	P	b			1 1/16 tail dia		P-ST8-815	1.95
9 pin magnoval - EL509/6KG6A size								
all molded NOS	C	t,b		1 7/16 - 1 9/16	15/16 t, 1 1/8 b		P-ST9-509	5.25
9 pin miniature - 12AX7/12BH7 size								
saddle -plate	P	t		1 1/8	/8	2	P-ST9-100	4.95
saddle -plate	P	b		1 1/8	/8	13	P-ST9-211M	4.95
saddle -shield base	P	t		1 1/8	/8		P-ST9-213	3.50
saddle with shield	C	t		1 1/8	/8		P-ST9-162	2.75
saddle with steel shield	P	t		1 1/8	/8		P-ST9-163	6.95
saddle -molded NOS	M	t,b		7/8 or 1	/8	18	P-ST9-265	.95
saddle -shock mount NOS	M	b		1 1/4	/4		P-ST9-137R	2.25
saddle	C	t,b		1 1/8	/8	8, 10	P-ST9-511	1.95
wafer NOS	P	b		1 5/16		17	P-ST9-149	.65
pc - stand-off, white	C	t		-	13/16 tail dia.	5	P-ST9-214	2.50
pc -stand-off	C	t		-	13/16 tail dia.	1, 5	P-ST9-214G	3.50
pc -stand-off, white	P	t		-	3/4 tail dia.	5	P-ST9-215	3.25
pc mount -split tail NOS	P	t		-	.781 tail dia.		P-ST9-218	.75
pc mount -stand off	P	t		-	13/16 tail dia	5	P-ST9-219	2.25
pc -snap in NOS	M	t				12	P-ST9-521	.50
pc -snap in NOS	M	t				12	P-ST9-522	.50
saddle	M	t		1 1/8	/8		P-ST9-600	4.95
socket saver	P	t		-	-		P-ST9-900	7.95
saddle- high voltage	Pl	t		2 1/4	1 /8	21	P-ST9-102	1.95
saddle	B	b		1 1/8	/8	23	P-ST9-211	4.50
saddle- shield base	M	t		1 1/8	/8	19	P-ST9-700	2.95
9 pin compactron - 6KV6/6JE6 size								
saddle - plate NOS	P	b		1 5/16	1		P-ST9-254M	2.95
pc - stand-off NOS	P	t			15/16 tail dia	5	P-ST9-215-1	.95
pc NOS	M	b		1	5/16 tail dia	5	P-ST9-215-2	.75
molded	Pl	b, t		1 1/4	1		P-ST9-103	3.95
saddle	B	t		1 1/4	1		P-ST9-104	3.95
11 pin octal								
saddle MIP	P	b		1 1/2	1 /8		P-ST11-MIP	3.50
type S	P	b		1 5/8	1 /1		P-ST11-212	3.50
	P	t		3 7/8	1 /4	22	P-ST11-146-817	9.95
12 pin compactron - 6LF6/20LF6 size								
pc - press tails NOS	P	t		-	1.063 tail dia.	4	P-ST12-176	.95
pc mount	Pl	t		-	1		P-ST12-113-C	2.95
molded	Pl	t, b		1 1/4	1		P-ST12-296M	3.95
Nuvistor Sockets								
pc, 5 pin NOS	M	t		5/8" tabs	-		P-STN-472	.95

P-ST8-801

P-ST8-802

P-ST8-807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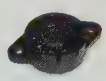
P-ST8-815

P-ST9-100

P-ST9-102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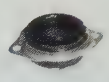
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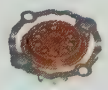
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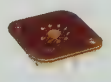
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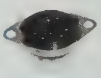
P-ST9-162

P-ST9-163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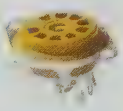
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P-ST9-214

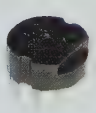
P-ST9-214G

P-ST9-215

P-ST9-215-1

P-ST9-215-2

P-ST9-218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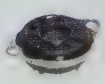
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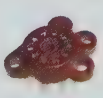
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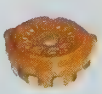
P-ST9-509

P-ST9-511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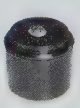
P-ST9-522

P-ST9-600

P-ST9-700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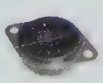
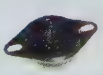

P-ST11-MIP

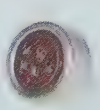
P-ST11-146-817


P-ST11-212

P-ST12-113-C

P-ST12-176

P-ST12-296M


P-STN-472

Adapters & Retainers

Yellow Jacket Converters

Yellow Jacket converters are specialized adapters which permit the use of EL84/6BQ5 power tubes in place of 6V6, 6L6, EL34 and 7591A types. Yellow Jacket converters not only rearrange the pin locations of the tubes but also provide the necessary current limiting on the screens and cathode. Yellow Jackets block the amplifier's grid bias voltage, which configures the EL84/6BQ5 into a class A self adjusting bias circuit. Manufacturer recommends the JJ EL84/6BQ5. Yellow Jackets are not always yellow. Stock varies between yellow, black and red. The color has no bearing on the sound! **Tubes not included.**

Converts 6L6 or EL34	P-SAYJ	$29.95
Converts 6V6	P-SAYJ20	29.95
Converts 7591A	P-SAYJ7591	29.95
JJ EL84 Tube		8.40

Tube Shields

bayonet style with spring

7 Pin

7 pin, 1 3/8" tall, steel, NOS	P-SS7-157	$0.80
7 pin, 2 1/4" tall, steel, NOS	P-SS7-194	.95

9 Pin

9 pin, 1 1/2" tall, steel, NOS (Eby)	P-SS9-161	1.95
9 pin, 1 1/2" tall w/base, alum, China	P-SS9-162	1.95
9 pin, 1 7/8" tall w/base, alum, China	P-SS9-325	1.95

9 pin, miniature socket, phenolic base, steel shield with base P-ST9-163 6.95

Other Type (NOS) (*While Supplies Last!*)
7 pin, 1 3/8" tall, push-on P-SS7-173 $0.65

9 pin 1 7/8" tall, bayonet style with spring, interior is ribbed to dissipate heat. Flexible metal strip to provide contact between shield and base is included. Very high quality Collins.
P-SS9-165 $3.95

Ceramic Grid/Plate Caps

1/4"	(6K7)	P-SG116	$6.50
3/8"	(807)	P-SG110	2.50
7/16"	(807)	P-SG111	2.75
9/16"	(811, 572B)	P-SG115	2.95

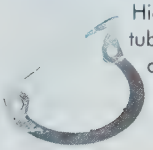
Tube Retainers

For use with guitar amps and applications where the tube is suspended upside down in the chassis.

EL34, 5881, 6L6GC [1]	S-H141	$2.95
KT88, 6550 [1]	S-H143	1.95
EL84 [2]	S-H144	1.95

Octal Tube Clip

S-H142 $1.75



High quality. Grips tube base with "teeth" to securely hold tube in place. For use with octal sockets with 1 1/2" mounting centers. **Sold individually.**

Crystal Holder Sockets

P-SX-125 $0.40

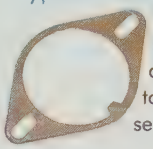
Red plastic, for crystal holders having 1/2" centers. Easily mounted. May be used as dual tip jacks on test panels. Package of 4

Transistor Sockets

P-STR-002 .95

4 lead, in-line. NOS

"Type S" Socket Adapter Plate



When the hole in the chassis is too large to mount a Type S socket directly to the chassis with a wavy washer, this adapter can be used. 1 3/16" diameter opening in plate, 1 1/2" to about 1 7/8" mounting centers can be used. Socket is secured to plate with wavy washer.

Mounting plate	P-SH12-1-31	$1.50
Wavy washer	P-SH2-104-2	.40

Tuning Eye Adapter [1]

P-SA314 $17.50

6 pin plug-in adapter allows hard to find 6U5 or similar tuning eye tubes to be replaced with 1629 tubes.

7591 Tube Adapter [2]

P-SA317 $14.95

Replace expensive and hard to find 7591 tubes with less expensive 6GM5 tubes.

WD11 Tube Adapter [3]

P-SA315 $29.95

Replaces hard to find WD11 tube with less expensive 3D6/1299 tube.

Octal Keyway Replacement

P-STKY-1 $10.00

Do you have valuable octal type tubes that work fine except the keyway has been broken off the base? Fix it with this simple and inexpensive product. Simply clean the remainder of the broken keyway from the base and slip one of these on. Will stay on by itself, or you can use a dab of silicon to attach if you wish. **Package of 4** keyway replacements. *While Supplies Last!*

Octal Relay Socket

P-ST8-108S $9.95

Great for experimenting! Use anywhere you would use a normal octal tube socket, but use screw terminal strips to attach wiring. No need to mount socket and solder leads.

Octal Tube Base

P-SP8-476 $2.45

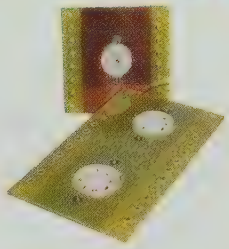
Used for octal plug or coil form 1 1/4" dia. x 5/8" high. Comes in either light or dark brown, selected randomly.

Tube Bases

4 pin, ceramic [1]	P-SP4-477C	$5.95
4 pin, bakelite [2]	P-SP4-477	2.95

Point to Point Terminal Boards

Rigid high temp (285° F continuous) epoxy board, FR4 0.125" thick with 2/0 copper cladding, 0.500" standoffs, solid brass electrosolder plated terminals, gold plated ceramic tube sockets, mounting hardware and template included.

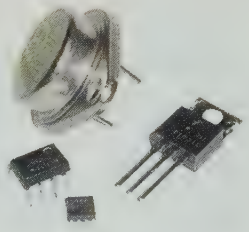


Single 9 pin miniature socket. 3" x 3"	P-PTP0108	$11.95
Dual 9 pin miniature sockets. 3" x 5¼"	P-PTP0209	19.95
Single octal socket. 3" x 3"	P-PTP0109	11.95
Dual octal sockets. 3" x 5¼"	P-PTP0208	20.95

Semiconductors

Transistors	Description		Price
P-QTIP31C	TIP31C	T0-220 Case	$0.95
P-QTIP32C	TIP32C	T0-220 Case	.95
P-QTIP41C	TIP41C	T0-220 Case	.95
P-QTIP42C	TIP42C	T0-220 Case	.95
P-Q2N3055	2N3055	T0-3 Case	1.95
P-QMJ15015	MJ15015	T0-3 Case	2.95
P-QMJ15016	MJ 15016	T0-3 Case	2.95
P-QMJ15022	MJ15022	T0-3 Case	5.95
P-QMJ15023	MJ15023	T0-3 Case	5.95
P-QMJ15025	MJ15025	T0-3 Case	5.50

Integrated Circuits (DIP)	Description		Price
P-QTL072	TL072	Dual op Amp	$1.25
P-QTL074	TL074	Quad op Amp	1.25
P-QNE5532	NE5532	Dual op Amp	1.05
P-QNE5534	NE5534	Dual op Amp	1.05
P-Q4558	4558	Dual op Amp	.75



Solid State Rectifier

P-SSR01 $9.95

Direct plug-in replacement for 5AR4, 5U4 and 5Y3 rectifier tubes in amplifiers with center tapped secondary power transformer. Use when less "sag" is desired in the power supply, use the tube rectifier when "sag" is desired.

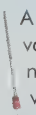
NOTE! Because there is no warm up of a rectifier tube when using this solid state device, it is critical that a standby switch is used that will allow the power tube filaments to warm up and generate an electron "cloud" around the cathode before high voltage is applied. This will prevent "cathode stripping" in the power tubes. It is a good idea to use a standby switch when using vacuum tube rectification, but it is critical when using solid state rectification.

Diodes

A semiconductor device which passes current in the forward direction (from anode to cathode) and blocks current in the opposite direction.

Type	Amps	Volts	Part	Price
1N4004	1	50	P-Q1N4004	$0.25
1N4005	1	600	P-Q1N4005	.19
1N4007	1	1000	P-Q1N4007	.19
1N4148A1		600	P-Q971	.15
1N5404	3	400	P-Q1N5404	.39

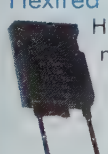
Zener Diodes



A semiconductor device that, above a certain reverse voltage (the zener value) has a sudden rise in current. If forward biased, the diode is an ordinary rectifier. When reverse biased, it exhibits a sharp break in its current voltage graph. Voltage across the diode remains essentially constant for any further increase of reverse current.

Type	Watts	Volts	Part	Price
1N4741A	1	11	P-Q1N4741A	$0.19
1N4748A	1	22	P-Q1N4748A	.19

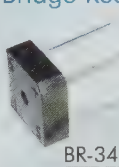
Hexfred Diodes



High performance, ultrafast diodes. Improve efficiency, reduce noise, allow higher frequency operation.

	Amps	Volts	Part	Price
HFA08TB60	8	600	P-QHFA08	$2.95
HFA16TA60C	16	600	P-QHFA16T	2.25
HFA16PB120	16	1200	P-QHFA16P	6.25

Bridge Rectifiers

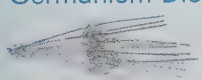


A full wave rectifier with 4 elements in a bridge circuit so that DC voltage is obtained from one pair of junctions when an AC voltage is applied to another pair of junctions.

	Amps	Volts	Part	Price
BR-34	3	400	P-QBR-34	$0.95
BR-62	6	200	P-QBR-62	1.75
BR-81	8	100	P-QBR-81	1.95
BR-84	8	400	P-QBR-84	1.75
BR-104	10	400	P-QBR-104	1.45

Germanium Diodes

P-Q972 $1.50



1N34A point contact germanium diodes, ideal for crystal radio detectors.

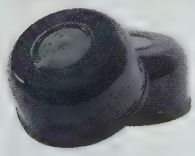
Jensen Vintage Speakers

The Jensen Loudspeakers P Series uses the legendary AlNiCo type speaker magnet

P Series	Size	Ohms	RMS/Peak	Response	Voice Coil Diameter	Weight (lbs)	Part	Price
P8R	8"	4/8	25/50	80-8k	1"	3.25	P-A-P8R	$59.95
The heart and soul of smaller vintage combos and studio amps.								
P10R	10"	4/8/16	25/50	80-6k	1"	4.0	P-A-P10R	62.95
This speaker has occupied the finest guitar amplifiers in the world. Very versatile for clean leads, punchy bass, and scorching rock sounds. Pure Vintage!								
P10Q	10"	8/16	35/70	80-6k	1.25"	5.0	P-A-P10Q	72.95
The magic of this speaker is its power upgrade from the legendary P10R								
P12R	12"	8/16	25/50	60-8k	1"	4.5	P-A-P12R	69.95
A classic AlNiCo 12" speaker made for lower wattages. The P12R sings with bell like highs along with a warm, extended lower frequency range.								
P12Q	12"	8/16	35/70	60-8k	1.25"	6.0	P-A-P12Q	78.95
Sweet, smooth and powerful, this speaker has it all including a great punch!								
P12N w/bell	12"	8/16	50/100	60-8k	1.5"	8.25	P-A-P12N	129.95
This classic AlNiCo magnet speaker was one of the original guitar amplifier speakers from as early as 1952.								
P12N-NB	12"	8/16	50/100	60-8k	1.5"	7.5	P-A-P12N-NB	119.95
The "naked" version of the P12N, it doesn't have the bell cover over the magnet. A bell cover can be added later using the "N" size cover.								
P15N	15"	4/8/16	50/100	50-4k	1.5"	10.5	P-A-P15N	159.95
Some guitarists feel that a 15" speaker is the only way to get an instrument's true tone without compromise. Bell not included.								
15" Speaker Gasket							P-A-GASKET-15	6.00
Additional gasket for 15" speakers for proper spacing in Leslie cabinets.								

Please specify ohm rating when ordering

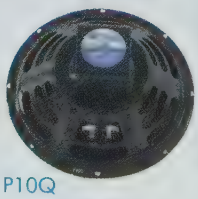
Bell Covers	Usage	Part	Price
Bell-R	P8R, P10R, P10Q, P12R, P12Q	P-A-BELL-P-R	$22.75
Bell-N	P12N, P15N	P-A-BELL-N	29.25



It's Your Tone

P8R

P10R



P10Q

P12R

P12Q

P12N-NB

P12N

P15N

The C series of Jensen Loudspeakers uses ceramic type speaker magnets

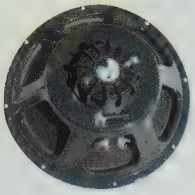
C Series	Size	Ohms	RMS/Peak	Response	Voice Coil Diameter	Weight (lbs)	Part	Price
C8R	8"	4/8	25/50	80-8k	1"	2.75	P-A-C8R	$24.95
Amazing range in a compact size. It is used most often for smaller studio and practice amps, however, the tone rivals speakers twice its size. This is a great replacement for the Fender® Champ.								
C10R	10"	8	25/50	80-6k	1"	3.5	P-A-C10R	27.95
A low wattage 10" speaker with a loud voice. The C10R can cut through the noise for scorching leads.								
C10Q	10"	8/16	35/70	80-6k	1.25"	4.25	P-A-C10Q	33.95
One of Jensen's most popular models, this speaker features bell-like highs and a smooth midrange. Versatile enough for anything from surf music to hard edge rock.								
C12R	12"	8/16	25/50	70-6k	1"	4.0	P-A-C12R	32.95
Vintage tone in a low wattage 12" speaker.								
C12Q	12"	8/16	35/70	70-6k	1.25"	5.0	P-A-C12Q	39.95
Great character and power handling makes this speaker an excellent choice for amplifiers needing vintage tone.								
C12N	12"	4/8/16	50/100	70-7k	1.5"	8.0	P-A-C12N	57.95
The C12N is the definitive rock and roll speaker, used by almost every major amplifier manufacturer in the 1960's.								
C12K	12"	4/8/16	100/200	70-7k	2"	10.5	P-A-C12K	74.95
This high wattage speaker has great highs and an extended midrange for versatility in both clean and overdriven settings.								
C15N	15"	4/8/16	50/100	50-4k	1.5"	11.0	P-A-C15N	79.95
A 15" speaker with a wide range of tone reproduction. Smooth highs and deep lows.								
C15K	15"	8/16	100/200	50-4k	2"	13.5	P-A-C15K	91.95
Jensen 15" ceramic magnet speakers have biting highs for lead and a throaty low end for overdriven chords. Excellent in guitar amps or in Leslie speaker cabinets.								
15" Speaker Gasket							P-A-GASKET-15	6.00
Additional gasket for 15" speakers for proper spacing in Leslie cabinets.								

Please specify ohm rating when ordering

For information on speaker ohm ratings and parallel or series wiring, check out the Tech Section on our website

Recone Kits	Part	Price
P10R	K-RC-P10R	$62.95
C10R	K-RC-C10R	27.95
C10Q	K-RC-C10Q	33.95
C12N	K-RC-C12N	57.95

Recone your original Jensen speakers with these kits. **As reconing is a specialized skill, these do not come with instructions and are for use by those who have experience in speaker reconing.** Original Jensen Speaker Recone Kits are made exclusively for older "Original" Jensen speakers (made prior to 1980) and contain genuine Jensen components. These kits cannot be returned or used on Jensen re-issue Vintage Series Models.



Neodymium was discovered in 1885 by C.A. von Welsbach who separated Mosander's "didymium" into two components, the earth's neodymia and praesodymia. C.A. had no idea that over 100 years later he would change the face and sound of the music industry. Jensen® developed the perfect warm high-power speaker using the lightweight neodymium magnet, only 7oz! The speaker of the future is here today!

	Size	Ohms	RMS/Peak	Voice Coil Diameter	Weight	Part	Price
NEO12-100	12"	8/16	100/200	2"	5.0 lbs	P-A-NEO12-100	$89.95

Please specify ohm rating when ordering

10" Neo coming soon!

Mods	Size	Ohms	RMS/Peak	Voice Coil Diameter	Weight (lbs)	Part	Price
MOD6-15	6"	4	15/30	.75"	3.0	P-A-MOD6-15	$16.95
Super power in only six inches							
MOD8-20	8"	4/8	20/40	1"	2.0	P-A-MOD8-20	17.25
Smooth highs with a well-defined bottom							
MOD10-35	10"	8/16	35/70	1"	3.1	P-A-MOD10-35	22.95
Good low wattage ten for excellent speaker movement							
MOD10-50	10"	4/8/16/32	50/100	1.25"	4.3	P-A-MOD10-50	27.95
Mid wattage ten for all your ten needs in every impedance possible							
MOD10-70	10"	8	70/140	1.5"	5.5	P-A-MOD10-70	31.95
Mega ten for bass amps							
MOD12-35	12"	8/16	35/70	1"	3.8	P-A-MOD12-35	29.95
Light wattage twelve for excellent speaker movement							
MOD12-50	12"	8/16	50/100	1.25"	5.0	P-A-MOD12-50	34.95
The work horse of the Mods, this is the most popular and most versatile							
MOD12-70	12"	4/8/16	70/140	1.5"	6.0	P-A-MOD12-70	44.95
The speaker that can rival any other speaker in their 4X12 cab							
MOD12-110	12"	8/16	110/220	2"	9.0	P-A-MOD12-110	49.95
Super heavy wattage, excellent for maximum clean tone							
MOD15-120	15"	4/8/16	120/240	2"	11.4	P-A-MOD15-120	59.95
Great for guitar and low wattage bass applications							
MOD15-200	15"	4/8/16	200/400	2.5"	14.0	P-A-MOD15-200	79.75
Full body for bass							

Please specify ohm rating when ordering

Mod 6-15

Mod 8-20

Mod 10-35

Mod 10-50

Mod 15-120

Mod 12-110

Mod 15-200

Mod 10-70

Mod 12-70

Mod 12-50

Mod 12-35

CELESTION

Model	Size	Ohms	RMS/Peak	Response	Voice Coil Diameter	Weight (lbs)	Part	Price
General Guitar								
TUBE 10	10"	8	30/60	85-5k	1.5"	3.5	P-A-TUBE10	$40.00
Celestion's standard 10" speaker								
G12T-75	12"	8/16	75/150	80-5k	1.75"	8.6	P-A-G12T75	95.00
This is the industry standard 12' loudspeaker, found in all recent 4x12 Marshall™ amplifiers.								
Specialist Guitar								
Vintage 30	12"	8/16	60/120	70-5k	1.75"	11.2	P-A-VINT30	110.00
Great combo performer, this speaker thrives on high gain amps set to the max. This speaker has loads of volume and sustain, combined with tight, responsive single note definition.								
G12H	12"	8/16	30/60	75-5k	1.75"	11.5	P-A-G12H	120.00
With roots dating to the 1970's, the G12H has a tight, controlled bottom and a great midrange presence. Anniversary Edition.								
G12M	12"	8/16	25/50	75-5k	1.75"	9.0	P-A-G12M	100.00
Greenback Warmth and woodiness are the essential characteristics of this speaker along with the ability to respond instantly to the most subtle dynamic changes.								
G12-80	12"	8/16	80/160	80-5k	1.75"	11.3	P-A-G1280	120.00
Classic Lead If you're looking for improved power handling and warmth, this speaker is what you want! Perfect replacement or upgrade for 4x12 Marshall's™.								
G12	12"	8/16	15/30	75-5k	1.75"	10.3	P-A-G12	310.00
AlNiCo Blue Designed in the 50's, this speaker uses the original magnet to provide the tonal definition and dynamic range they are known for. Vox Bulldog speaker.								
G12 Century	12"	8	80/160	80-5k	1.75"	5.5	P-A-CNTRY	195.00
With the G12 Century, you get a speaker with low weight and previously unheard of performance. This new speaker has the ability to deliver extremely high sound pressure levels (121dB@1 meter) in an ultra lightweight package. The secret to this speaker is the never-before-used Neodymium alloy magnet structure.								
Professional Series								
Truvox 1020	10"	8	150/300	60-3k	2.0"	9.5	P-A-T1020	68.00
Truvox 1225	12"	8	250/500	40-4k	2.5"	10.5	P-A-T1225	76.00
Truvox 1530	15"	8	400/800	40-3k	3.0"	18.5	P-A-T1530	136.00

Please specify ohm rating when ordering

Miscellaneous Replacement Speakers

High quality, permanent magnet. For electro-dynamic speakers we suggest substituting a 5 or 10 watt wirewound resistor of approximately the same resistance as the old field coil. See the Tech Corner of our website for instructions. *While Supplies Last!*

Size	Shape	Impedance	Watts	Part	Price
3¾" x 6"	Oval	3.2 ohms	?	P-A6375-3A	$0.95
4"	Square	8 ohms	1	P-A600	7.95
4½"	Pin Cushion	6 ohms	5	P-A601	5.95
5"	(Jensen)Round	8 ohms	30	P-A-JA5-30	15.95
6"	Round	4 ohms	15	P-A-MOD6-15	16.95
6"	Pin Cushion	8 ohms	10	P-A602	7.95
6" x 9"	Oval	4 ohms	8	P-A69E8C	12.50
8"	Round	4 or 8 ohms	20	P-A-MOD8-20	17.25

SBE

Orange Drop Notes

Why use Film/Foil Capacitors?

Film/Foil capacitors are used rather than ceramic, tantalum or aluminum electrolytic types when capacitance stability, high pulse current and/or dissipation factor (heat loss) are of concern. Film/Foil capacitors are manufactured with capacitance values less than 1.0 microfarads and tolerances ranging from 1% to 10%. In comparison to other types of capacitors, Film/Foil designs offer: High insulation resistance, excellent pulse and current carrying capability, low dissipation factor, capacitance stability, low dielectric absorption, high pulse rise time (dv/dt), are non-polarized and have high frequency performance.

What is the difference between Film/Foil and metalized film capacitors?

Film/Foil capacitors consist of two plates of aluminum foil, which act as the electrodes, separated by a film used as the dielectric. These materials are non-inductively wound to form the capacitor section. The wire leads are welded directly to the aluminum foil which extends out on both sides of the capacitor section, hence the term extended foil design. In order to provide the utmost in dependability a sufficient thickness of dielectric film is essential. This construction criteria is the primary reason why the physical dimensions of Film/Foil capacitors are larger than that of the metalized types.

In contrast to the Film/Foil capacitor, where the electrode is an independent layer of aluminum foil, the electrode for the metalized film capacitor is an extremely thin layer of metal which is vacuum-deposited directly onto the dielectric film. The wire lead is connected to the electrodes by means of a metal spray applied to each end of the capacitor section; the lead is welded to this metal end spray. Metalized film capacitors are manufactured using a thinner dielectric film than that which is used in the same rated Film/Foil design. This is possible due to the self-healing characteristics of the metalized film. Self-healing or clearing removes a fault or short circuit in the dielectric film by vaporizing the metal electrode surrounding the defect and isolating the area.

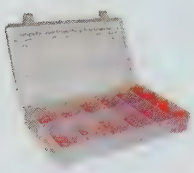
SBE Type PS "Orange Drop" Capacitors

Polyester film, 600V, ± 10% tolerance

	Capacity(μF)@Volts	Diameter x Length	1-9	10-49	50+
C-SD0012-600	.0012@600	0.33" x 0.70"	$0.62	$0.56	$0.47
C-SD0015-600	.0015@600	0.33" x 0.70"	.62	.56	.47
C-SD002-600	.002@600	0.33" x 0.70"	.62	.56	.47
C-SD0025-600	.0025@600	0.35" x 0.70"	.62	.56	.47
C-SD003-600	.003@600	0.35" x 0.70"	.62	.56	.47
C-SD004-600	.004@600	0.38" x 0.70"	.64	.58	.48
C-SD005-600	.005@600	0.38" x 0.70"	.65	.59	.49
C-SD0068-600	.0068@600	0.40" x 0.70"	.65	.59	.49
C-SD0082-600	.0082@600	0.40" x 0.90"	.70	.63	.53
C-SD01-600	.01@600	0.40" x 0.90"	.70	.63	.53
C-SD02-600	.02@600	0.45" x 0.90"	.87	.79	.65
C-SD03-600	.03@600	0.45" x 1.20"	1.21	1.09	.91
C-SD04-600	.04@600	0.55" x 1.20"	1.25	1.13	.94
C-SD05-600	.05@600	0.55" x 1.20"	1.33	1.20	.99
C-SD06-600	.06@600	0.60" x 1.20"	1.33	1.20	.99
C-SD082-600	.082@600	0.65" x 1.20"	1.45	1.31	1.09
C-SD1-600	.1@600	0.65" x 1.20"	1.42	1.28	1.07
C-SD2-600	.2@600	0.80" x 1.60"	2.88	2.59	2.16
C-SD25-600	.25@600	0.80" x 1.60"	2.99	2.69	2.24

Miscellaneous Orange Drops

.0033μF, 800V	C-SD0033-800	$0.45
.0082μF, 1600V	C-SD0082-1600	.85



Orange Drop Capacitor Kit

C-RS1 $52.95

72 pieces total, this kit contains 6 of each of the following values in Type PS and Type 715P (600V): .0033, .0056, .01, .022, .047, .1μF. You save over purchasing each of these individually, plus you get a handy organizer complete with labels.

How To "Read" Orange Drop Capacitors

Need to determine the value of an Orange Drop cap? Use the code below to determine it's value.

Manufacturer Part Number

224 = capacitance in pico farads 1st two digits are significant digits, 3rd digit is number of digits that follow
ie: 22 + 0000 = 220,000 pF = .22μF
K = tolerance, F = 1%, J = 5%, K = 10%
600V = voltage rating
9644 = date code ie: 44th week of 1996

Also see our website www.tubesandmore.com in the Tech Tips section for more informationon reading capacitors.

SBE 715P "Orange Drop" Capacitors

Rated for 85°C operation. Straight radial leads with minimum 1¼" length. Polypropylene Film ± 5% tolerance.

	Capacity(μF)@Volts	Diameter x Length	1-24	25+
C-RD001-600	.001@600	0.40" x 0.75"	$0.55	$0.47
C-RD0022-600	.0022@600	0.40" x 0.75"	.55	.47
C-RD0033-600	.0033@600	0.40" x 0.75"	.55	.47
C-RD0047-600	.0047@600	0.45" x 0.75"	.55	.47
C-RD0056-600	.0056@600	0.45" x 0.75"	.60	.51
C-RD01-600	.01@600	0.45" x 0.95"	.65	.56
C-RD015-600	.015@600	0.50" x 0.95"	.65	.56
C-RD022-600	.022@600	0.55" x 0.95"	.82	.70
C-RD033-600	.033@600	0.55" x 1.30"	.94	.80
C-RD047-600	.047@600	0.60" x 1.30"	.84	.72
C-RD1-600	.1@600	0.75" x 1.30"	1.22	1.04
C-RD22-600	.22@600	0.85" x 1.70"	2.05	1.75
C-RD47-400	.47@400	0.90" x 1.55"	1.99	1.69
Polypropylene film, 1600V, ± 10% tolerance				
C-SD001-1600	.001@1600	0.50" x 1.30"	$0.92	$0.87
C-SD002-1600	.002@1600	0.50" x 1.30"	.92	.87
C-SD003-1600	.003@1600	0.50" x 1.30"	.92	.87
C-SD0039-1600	.0039@1600	0.50" x 1.30"	.92	.87
C-SD0047-1600	.0047@1600	0.50" x 1.30"	.92	.87
C-SD005-1600	.005@1600	0.50" x 1.30"	.92	.87
C-SD006-1600	.006@1600	0.55" x 1.30"	1.06	1.01
C-SD0068-1600	.0068@1600	0.55" x 1.30"	1.06	1.01
C-SD01-1600	.01@1600	0.60" x 1.30"	1.21	1.15
C-SD02-1600	.02@1600	0.65" x 1.70"	1.64	1.56
C-SD03-1600	.03@1600	0.75" x 1.70"	1.78	1.69
C-SD05-1600	.05@1600	0.85" x 1.70"	2.32	2.20

SBE 716P High Performance "Orange Drop" Capacitors

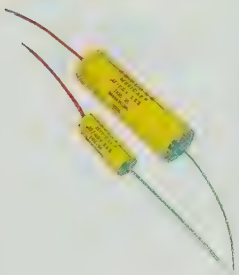
The Type 716P Orange Drop is a high performance version of the popular 715P series. They are made from polypropylene film and foil with pure copper leads, making them ideal for high pulse current applications. Rated for 85° C operation. ±5% tolerance. Straight radial leads with minimum 1¼" length.

400 Volt	Capacity(μF)@Volts	Diameter x Length	1-24	25+
C-PD0047-400	.0047@400	0.31" x 0.63"	$0.82	$0.66
C-PD01-400	.01@400	0.39" x 0.65"	.86	.69
C-PD022-400	.022@400	0.43" x 0.81"	1.03	.83
C-PD033-400	.033@400	0.49" x 0.89"	1.11	.89
C-PD047-400	.047@400	0.51" x 0.84"	1.18	.95
C-PD1-400	.1@400	0.60" x 1.16"	1.37	1.10
C-PD22-400	.22@400	0.75" x 1.15"	1.70	1.36
C-PD47-400	.47@400	0.93" x 1.55"	2.46	1.97
600 Volt				
C-PD001-600	.001@600	0.41" x 0.63"	.82	.66
C-PD0022-600	.0022@600	0.39" x 0.65"	.82	.66
C-PD0033-600	.0033@600	0.37" x 0.61"	.83	.67
C-PD0047-600	.0047@600	0.43" x 0.63"	.85	.68
C-PD0056-600	.0056@600	0.43" x 0.63"	.86	.69
C-PD01-600	.01@600	0.50" x 0.65"	.91	.73
C-PD015-600	.015@600	0.51" x 0.85"	1.05	.84
C-PD022-600	.022@600	0.56" x 0.85"	1.14	.92
C-PD033-600	.033@600	0.64" x 0.86"	1.25	1.00
C-PD047-600	.047@600	0.62" x 1.19"	1.31	1.05
C-PD1-600	.1@600	0.82" x 1.18"	1.84	1.48
C-PD22-600	.22@600	0.95" x 1.56"	2.36	1.89

All 600 VDC Orange Drop Caps are rated at 200 VAC@60Hz RMS; all 1600 VDC caps are rated at 475 VAC@60Hz RMS

Hovland & Auricap Capacitors

MusiCaps® by HOVLAND



Hovland MusiCaps enable sensitive audio circuits to achieve their ultimate level of performance. MusiCaps are individually machine-rolled, and the leads are carefully hand-soldered using lead-free silver-bearing solder. The leads are stranded, teflon insulated, silver-plated copper. In addition, the winding method and density of MusiCaps helps quell microphonic tendencies. As a result of the premium materials used to produce MusiCaps, they are approximately 100% larger than common metalized capacitors. MusiCap lead lengths are approximately 2 inches on coupling caps. The red lead is the foil inner edge. It is preferable to connect the red lead towards the output of the circuit.

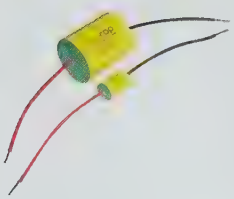
- Manufactured entirely in USA.
- Extremely low DA, DF and ESR.
- 100% pre-testing for absolute quality assurance.
- Consistent, even, winding tension assures freedom from microphonics.

Coupling Capacitors-Film & Foil Polypropylene

22 awg. silver-plated teflon insulated axial leads; Round case. ± 5% tolerance

	Capacity(μF)@Volts	Diameter x Length	Price
C-H1-200	1.0@200	.68" x 2.00"	$13.85
C-H3-200	3.0@200	.92" x 2.88"	23.95
C-HD1-400	.1@400	.41" x 1.28"	7.75
C-HD15-400	.15@400	.43" x 1.25"	9.35
C-HD22-400	.22@400	.55" x 1.50"	10.15
C-HD47-400	.47@400	.59" x 2.00"	11.45
C-H2-400	2.0@400	.98" x 3.00"	23.95
C-HD1-600	.1@600	.50" x 1.75"	10.35
C-HD22-600	.22@600	.62" x 2.00"	12.95
C-HD33-600	.33@600	.57" x 2.25"	16.45
C-HD47-600	.47@600	.80" x 2.50"	19.45
C-HD022-1000	.022@1000	.44" x 1.25"	8.75
C-HD047-1000	.047@1000	.54" x 1.75"	10.85
C-HD01-1600	.01@1600	.39" x 1.17"	8.75

auricap



High resolution capacitors. Used in Airtight, Bottlehead and Rowe! Tolerance- ±10%

Jennifer WhiteWolf-Crock of Jena Labs, *www.jenalabs.com* writes: "Auricap has become my reference standard for audio caps. My customers always comment about how much better and more natural their audio gear sounds when I install Auricaps. The highs are smooth and clear without tizzyness or harshness or dulling roll off. The mids are meaty and full of emotion when the source offers it. 'Three D' sound staging should be Auricaps middle name. Bass is tight and well connected, chesty and textured with power and authority. Best of all is not that these separate frequency groups sound so good as separate elements, but that they sound so 'together' and 'as one whole' when music plays through them. I sense no loss of rhythm, pacing, or emotion in circuits that employ these parts. An outstanding technical feat."

	Capacity(μF)@Volts	Diameter x Length	Price
C-AUD1-450	.1@450	.42" x .53"	$6.25
C-AUD22-450	.22@450	.50" x .60"	7.55
C-AUD33-450	.33@450	.60" x .65"	7.95
C-AUD47-450	.47@450	.60" x .78"	8.65
C-AUD68-450	.68@450	.69" x .87"	9.35
C-AU1-450	1@450	.77" x .90"	10.55
C-AU1D5-450	1.5@450	.76" x 1.17"	10.95
C-AUD01-600	.01@600	.36" x .40"	5.95
C-AUD022-600	.022@600	.45" x .53"	6.30
C-AUD047-600	.047@600	.52" x .65"	7.00
C-AU1-600	1@600	1.27" x 1.40"	19.95

Solen "Fast" Capacitors

Solen "FAST CAPACITORS" are made of the highest quality aluminum metalized polypropylene film available. They will directly enhance the efficiency of loudspeaker and other electronic equipment.

- Very Low Dielectric Absorption Factor
- Very Low Equivalent Series Resistance
- Very Low Inductance
- Very High Resonant Frequency
- Ultra Linear Impedance Characteristics
- Very Low Dissipation Factor
- Very High Insulation Resistance
- *Made in France*

250VDC, ±5% tolerance

	µF	Size (mm)	1-9	10+
C-FT1-250	1.0	11 x 21	$1.95	$1.75
C-FT2D2-250	2.2	14 x 22	2.45	2.20
C-FT3D3-250	3.3	16 x 25	2.75	2.50
C-FT4D7-250	4.7	18 x 27	3.15	2.85
C-FT5D1-250	5.1	19 x 27	3.20	2.90
C-FT6D8-250	6.8	20 x 30	3.60	3.25
C-FT8D2-250	8.2	21 x 33	4.15	3.75
C-FT10-250	10	23 x 33	4.25	3.85
C-FT15-250	15	25 x 38	6.65	5.99
C-FT22-250	22	28 x 43	8.90	7.99
C-FT47-250	47	38 x 48	14.45	12.99

630VDC, ±5% tolerance

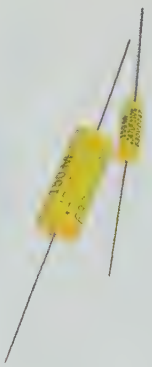
	µF	Size (mm)	1-9	10+
C-FSD1-630	0.1	9 x 17	$1.45	$1.30
C-FSD15-630	0.15	9 x 20	1.45	1.30
C-FSD22-630	0.22	11 x 20	1.55	1.40
C-FSD27-630	0.27	11 x 22	1.55	1.40
C-FSD33-630	0.33	12 x 22	1.55	1.40
C-FSD47-630	0.47	13 x 22	1.60	1.45
C-FSD56-630	0.56	14 x 22	1.60	1.45
C-FSD68-630	0.68	15 x 22	1.90	1.70
C-FS1-630	1.0	16 x 25	1.90	1.70
C-FS1D5-630	1.5	18 x 27	2.25	1.99
C-FS2D2-630	2.2	19 x 33	2.40	2.15
C-FS3D3-630	3.3	24 x 33	2.75	2.50
C-FS4D7-630	4.7	25 x 38	3.40	3.05
C-FS6D8-630	6.8	30 x 38	4.10	3.70
C-FS8D2-630	8.2	30 x 45	4.75	4.30
C-FS10-630	10	32 x 45	5.20	4.70
C-FS15-630	15	36 x 53	6.70	5.99
C-FS22-630	22	42 x 58	8.80	7.95
C-FS33-630	33	49 x 63	10.90	9.80
C-FS47-630	47	54 x 72	15.70	14.15

1000VDC, ±5% tolerance

C-FSD01-1000	.01	7 x 16	$1.60	$1.45
C-FSD022-1000	0.022	8 x 18	1.62	1.48
C-FSD047-1000	0.047	8 x 18	1.64	1.49

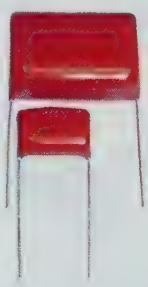
Metalized Polyester Tubular

Tolerance ±10%, non-inductive, self healing windings, axial leads.



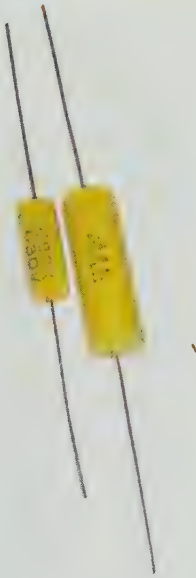
	Capacity(µF)@Volts	Diameter x Length	1-9	10+
C-MD001-630	.001@630	0.20" x 0.43"	$0.57	$0.50
C-MD0022-630	.0022@630	0.20" x 0.43"	.62	.55
C-MD0047-630	.0047@630	0.20" x 0.43"	.65	.58
C-MD01-630	.01@630	0.24" x 0.65"	.68	.60
C-MD022-630	.022@630	0.28" x 0.65"	.76	.67
C-MD047-630	.047@630	0.32" x 0.81"	.84	.74
C-MD1-630	.1@630	0.34" x 1.10"	1.05	.94
C-MD22-630	.22@630	0.45" x 1.10"	1.19	1.05
C-MD47-630	.47@630	0.59" x 1.30"	1.95	1.75

Great small polypropylene coupling capacitors. Radial Leads.



	Capacity(µF)@Volts	Diameter x Length	1-24	25+
C-XPD001-630	.001@630	.44" x .26"	$0.48	$0.43
C-XPD0022-630	.0022@630	.45" x .28"	.48	.43
C-XPD0047-630	.0047@630	.51" x .38"	.48	.43
C-XPD01-630	.01@630	.48" x .32"	.48	.43
C-XPD022-630	.022@630	.48" x .43"	.52	.47
C-XPD047-630	.047@630	.66" x .45"	.72	.65
C-XPD1-630	.1@630	.87" x .54"	.80	.72
C-XPD22-630	.22@630	1.15" x .60"	1.10	.99
C-XPD47-630	.47@630	1.15" x .86"	1.98	1.78

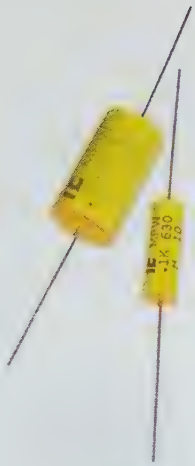
Tubular Capacitors



Metalized Polyester Tubular

Tolerance ±10%, non-inductive, self healing windings, axial leads

400 Volt	Capacity(μF)@Volts	Diameter x Length	1-9	10-49	50+
C-TD01-400	.01@400	0.22" x 0.55"	$0.38	$0.34	$0.29
C-TD015-400	.015@400	0.22" x 0.55"	.38	.34	.29
C-TD022-400	.022@400	0.22" x 0.55"	.38	.34	.29
C-TD033-400	.033@400	0.24" x 0.55"	.42	.38	.32
C-TD047-400	.047@400	0.28" x 0.55"	.42	.38	.32
C-TD068-400	.068@400	0.26" x 0.75"	.42	.38	.32
C-TD1-400	.1@400	0.30" x 0.75"	.48	.43	.36
C-TD22-400	.22@400	0.39" x 0.75"	.60	.54	.45
C-TD47-400	.47@400	0.45" x 0.98"	.66	.60	.50
C-T1-400	1.0@400	0.59" x 1.26"	1.05	.95	.79
C-T2D2-400	2.2@400	0.79" x 1.26"	2.03	1.83	1.53
630 Volt					
C-TD001-630	.001@630	0.18" x 0.39"	.61	.56	.49
C-TD0015-630	.0015@630	0.18" x 0.39"	.61	.56	.49
C-TD0022-630	.0022@630	0.18" x 0.39"	.57	.51	.43
C-TD0033-630	.0033@630	0.18" x 0.39"	.57	.51	.43
C-TD0047-630	.0047@630	0.18" x 0.39"	.57	.51	.43
C-TD0068-630	.0068@630	0.18" x 0.39"	.57	.51	.43
C-TD01-630	.01@630	0.24" x 0.55"	.42	.38	.32
C-TD015-630	.015@630	0.26" x 0.55"	.42	.38	.32
C-TD022-630	.022@630	0.26" x 0.55"	.44	.40	.33
C-TD033-630	.033@630	0.26" x 0.75"	.57	.51	.43
C-TD047-630	.047@630	0.30" x 0.75"	.52	.47	.39
C-TD068-630	.068@630	0.33" x 0.75"	.58	.52	.44
C-TD1-630	.1@630	0.39" x 0.75"	.66	.59	.50
C-TD15-630	.15@630	0.43" x 0.75"	.71	.64	.53
C-TD22-630	.22@630	0.43" x 0.98"	.75	.68	.56
C-TD33-630	.33@630	0.47" x 0.98"	.87	.78	.65
C-TD47-630	.47@630	0.51" x 1.26"	.98	.88	.74
C-TD68-630	.68@630	0.59" x 1.26"	1.13	1.02	.85
C-T1-630	1.0@630	0.67" x 1.26"	1.45	1.31	1.09
C-T1D5-630	1.5@630	0.75" x 1.26"	1.98	1.78	1.49
C-T2D2-630	2.2@630	0.79" x 1.85"	2.55	2.30	1.91



Illinois Metalized Polypropylene Tubular

Tolerance ±10%, +105° C, non-inductive, self healing windings, axial leads

	Capacity(μF)@Volts	Diameter x Length	1-24	25+
C-UD001-630	.001@630	0.25" x 0.58"	$0.72	$0.62
C-UD0022-630	.0022@630	0.25" x 0.58"	.76	.65
C-UD0033-630	.0033@630	0.25" x 0.58"	.76	.66
C-UD0047-630	.0047@630	0.25" x 0.58"	.76	.66
C-UD01-630	.01@630	0.26" x 0.58"	.52	.45
C-UD022-630	.022@630	0.34" x 0.58"	.62	.53
C-UD033-630	.033@630	0.34" x 0.81"	.89	.76
C-UD047-630	.047@630	0.36" x 0.81"	.87	.74
C-UD1-630	.1@630	0.42" x 1.15"	.95	.81
C-UD22-630	.22@630	0.50" x 1.34"	1.28	1.09
C-UD47-630	.47@630	0.71" x 1.34"	1.91	1.63

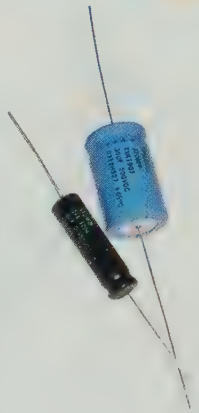
High Grade Multi-section Electrolytic Capacitors

Made in Germany

	Capacity(μF)@Volts	Diameter x Length		Price
C-EM25-25-25	25/25/25@450	1.0" x 2.0"		$9.75
C-EM8-8-450	8/8@450	1.0" x 1.5"	Used in Vox AC30	9.95
C-EM33-33-450	33/33@450	1.0" x 2.0"		9.95

Sprague Atom

Low current leakage, long shelf life. Ideal for application in guitar amps, musical equipment, TV sets, auto radios, radio-phono combinations, and electronic testing equipment. Operating temperature -40°C to +85°C (6WVDC - 100WVDC) -20°C to +85°C (101WVDC - 600WVDC).



	Capacity(µF)@Volts	Diameter x Length	1-24	25+
C-SA25-25	25@25	0.25" x 0.50"	$1.35	$1.22
C-SA250-25	250@25	0.38" x 0.94"	1.56	1.41
C-SA25-50	25@50	0.25" x 0.68"	1.35	1.22
C-SA50-50	50@50	0.31" x 0.81"	1.36	1.23
C-SA100-100	100@100	0.44" x 1.50"	2.20	1.98
C-SA8-150	8@150	0.38" x 0.81"	1.48	1.33
C-SA10-150	10@150	0.38" x 0.81"	1.48	1.33
C-SA100-350	100@350	1.0" x 2.63"	5.95	5.36
C-SA16-475	16@475	0.88" x 1.63"	3.95	3.56
C-SA8-450	8@450	0.50" x 1.75"	2.65	2.39
C-SA80-450	80@450	1.0" x 2.63"	5.95	5.36
C-SA100-450	100@450	1.25" x 3.125"	7.25	6.53
C-SA10-500	10@500	0.75" x 1.69"	4.10	3.69
C-SA20-500	20@500	0.88" x 2.25"	4.55	4.10
C-SA30-500	30@500	1.0" x 1.63"	4.95	4.50
C-SA40-500	40@500	1.0" x 2.38"	5.25	4.73
C-SA20-600	20@600	1.0" x 3.63"	9.25	8.33

Axial Lead Electrolytic

Highest quality low leakage tubular electrolytic capacitors. Rated for 85°C operation. Tolerance -20%, +50%

	Capacity(µF)@Volts	Diameter x Length	1-9	10-49	50+
C-ET4700-16	4700@16	1.625" x 0.625"	$1.75	$1.63	$1.49
C-ET47-35	47@35	0.63" x 1.00"	.50	.45	.38
C-ET10-50	10@50	0.25" x 0.49"	.51	.46	.38
C-ET22-50	22@50	0.25" x 0.63"	.63	.57	.47
C-ET33-50	33@50	0.32" x 0.63"	.63	.57	.47
C-ET47-50	47@50	0.32" x 0.63"	.71	.64	.53
C-ET4D7-160	4.7@160	0.32" x 0.63"	1.75	1.58	1.32
C-ET10-160	10@160	0.40" x 0.79"	.83	.75	.62
C-ET22-160	22@160	0.49" x 0.98"	1.03	.93	.77
C-ET33-160	33@160	0.49" x 1.18"	1.41	1.27	1.06
C-ET47-160	47@160	0.49" x 1.18"	1.53	1.38	1.15
C-ET100-160	100@160	0.63" x 1.18"	2.39	2.15	1.79
C-ET220-160	220@160	0.70" x 1.50"	2.39	2.15	1.79
C-ET47-250	47@250	0.63" x 1.25"	1.95	1.76	1.47
C-ET4D7-350	4.7@350	0.40" x 0.98"	.89	.80	.67
C-ET10-350	10@350	0.49" x 1.18"	1.05	.95	.79
C-ET22-350	22@350	0.63" x 1.18"	1.69	1.52	1.27
C-ET33-350	33@350	0.63" x 1.57"	2.02	1.82	1.52
C-ET47-350	47@350	0.71" x 1.58"	2.55	2.30	1.91
C-ET100-350	100@350	0.98" x 2.36"	2.43	2.19	1.82
C-ET220-350	220@350	1.00" x 2.13"	6.95	5.95	5.20
C-ET4D7-450	4.7@450	0.49" x 1.18"	1.38	1.24	1.04
C-ET10-450	10@450	0.63" x 1.18"	1.28	1.15	.96
C-ET22-450	22@450	0.71" x 1.57"	1.99	1.79	1.49
C-ET22-450-105*	22@450 105°C rated	1.625" x 0.625"	2.10	1.89	1.55
C-ET33-450	33@450	0.88" x 1.57"	2.76	2.49	2.07
C-ET47-450	47@450	0.88" x 1.96"	3.89	3.50	2.92
C-ET100-450	100@450	0.98" x 2.36"	4.62	4.16	3.47
C-ET10-500	10@500	0.63" x 1.18"	2.32	2.09	1.74
C-ET22-500	22@500	0.63" x 1.57"	2.86	2.58	2.15

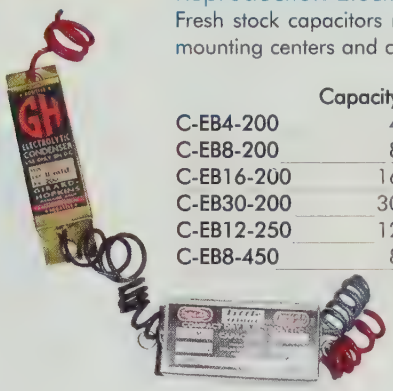
C-ETKIT Six each of: 22@50, 22@160, 33@160, 100@160, 22@450, 33@450, 47@450, 100@450 95.47

** While Supplies Last*

Box, Mica & Disc Capacitors

Reproduction Electrolytic Box Capacitors

Fresh stock capacitors resemble original capacitors used in table radios during the 1930's and 1940's. All have standard 3" mounting centers and common negatives. All measure 2½" x 13/16" x 7/8".



	Capacity(μF)@Volts	Replaces	Price
C-EB4-200	4@200	GH	$9.95
C-EB8-200	8@200	GH	9.95
C-EB16-200	16@200	GH	9.95
C-EB30-200	30@200	GH	10.95
C-EB12-250	12@250	GH	10.95
C-EB8-450	8@450	GH	13.95

	Capacity(μF)@Volts	Replaces	Price
C-EB4-4-200	4/4@200	Solar	$13.95
C-EB4-8-200	4/8@200	Solar	13.95
C-EB8-8-200	8/8@200	Solar	13.95
C-EB8-12-200	8/12@200	Solar	14.45
C-EB8-16-200	8/16@200	Solar	13.95
C-EB16-16-200	16/16@200	Solar	13.95
C-EB8-8-450	8/8@450	Solar	13.95

Conversions

To convert **pico** farads (pF) to **micro** farads (μF), multiply by .000001 (2200 pF = .0022 μF)

To convert **micro** farads (μF) to **pico** farads (pF), multiply by 1,000,000 (.0005 μF = 500 pF)

Silver Mica

5% tolerance. Dipped epoxy coating. Capacitance is listed in pico farads.

	Capacity(pF)@Volts	1-24	25+
C-SM22	22@500	$0.69	$0.62
C-SM47	47@500	.71	.64
C-SM68	68@500	.73	.68
C-SM82	82@500	.78	.70
C-SM100	100@500	.79	.71
C-SM150	150@500	.81	.73
C-SM220	220@500	.83	.75
C-SM250	250@500	.85	.77
C-SM300	300@500	.87	.78
C-SM360	360@500	.96	.86
C-SM390	390@500	1.05	.95
C-SM500	500@500	1.09	.98
C-SM680	680@500	1.20	1.08
C-SM820	820@500	1.20	1.08
C-SM1000	1000@500	1.20	1.08

Ceramic Disc

Capacitance is listed in pico farads.

	Capacity(pF)@Volts	Tolerance	1-24	25+
C-D22000-100	22000@100	±10%	$0.10	$0.08
C-D50000-100	50000@100	±10%	.18	.16
C-D100000-100	100000@100	±10%	.28	.26
C-D390-2000	390@2000	±10%	.15	.13
C-D470-2000	470@2000	±10%	.18	.16
C-D1000-2000	1000@2000	±10%	.24	.22
C-D2200-2000	2200@2000	±10%	.39	.35
C-D100-3000	100@3000	±10%	.29	.25
C-D330-3000	330@3000	±10%	.31	.28
C-D1000-3000	1000@3000	±10%	.32	.29
C-D10000-3000	10000@3000	±20%	.95	.85
C-D220-6000	220@6000	±10%	.39	.32
C-D470-6000	470@6000	±10%	.49	.42
C-D560-6000	560@6000	±10%	.51	.45
C-D1000-6000	1000@6000	±20%	.57	.49
C-D2200-6000	2200@6000	±20%	.64	.59
C-D3300-6000	3300@6000	±20%	.95	.89
C-D500-10000	500@10000	±20%	.95	.81
C-D1000-10000	1000@10000	±20%	.98	.83
C-D2500-10000	2500@10000	±20%	1.35	1.25

FP Type Capacitors

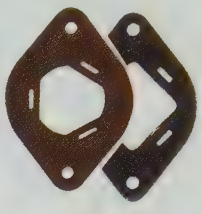
High voltage, electrolytic can capacitors, also known as "twist-lock" or "FP" capacitors combine the convenience of multi-section design with easy mounting. With the transfer of FP capacitor manufacturing equipment, (much of it built by Mallory, the inventor of the FP type), to CE Manufacturing LLC, customers can be assured of a quality American-made product without the fear of obsolescence. These capacitors are especially applicable to new designs in the growing market of vacuum-tube audio and musical equipment manufacturing as well as in the industrial electronics industry.

	Capacity(µF)@Volts	Diameter x Length	Price
C-EC20-20-450	20/20@450	1" x 2"	$26.95
C-EC20X4-475	20/20/20/20@475	1⅜" x 2"	29.95
C-EC30-30-30-10	30/30/30/10@475	1⅜" x 3½"	31.95
C-EC30X3-525	30/30/30@525	1⅜" x 3"	31.95
C-EC4020X2-525	40/40/20/20@525	1⅜" x 3"	33.95
C-EC40-20X3-525	40/20/20/20@525	1⅜" x 2½"	33.95
C-EC40X3-525	40/40/40@525	1⅜" x 3"	33.95
C-EC80-40-30-20	80/40/30/20@525	1⅜" x 3"	33.95
C-EC100-100-500	100/100@500	1⅜" x 4"	33.95

Twist Mount Can Mounting Plate

Phenolic insulator or metal plate for mounting FP type can capacitors

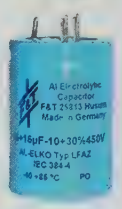
S-H121	1" diameter can insulator	$1.25
S-H121M	1" diameter can metal plate	1.50
S-H120	1⅜" diameter can insulator	1.25
S-H120M	1⅜" diameter can metal plate	1.50



F & T High Grade Multisection Electrolytic Can Capacitors

Made in Germany

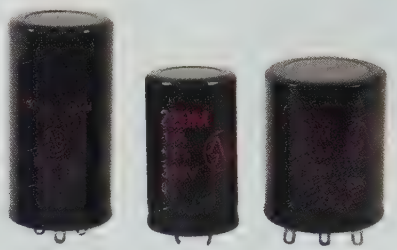
	Capacity(µF)@Volts	Diameter x Length	Mounting	Price
C-EC16-16-450FT	16/16@450	1⅜" x 2"	Clamp required	$10.95
C-EC50-50-500FT	50/50@500	1⅜" x 2"	Clamp required	12.95



Capacitors

Great for use in Marshall™ amplifiers. Clamp Required

	Capacity(µF)@Volts	Diameter x Length	Price
C-EC220-385	220@385	1³/₁₆" x 2"	$8.95
C-EC550-385	550@385	1⅜" x 3½"	9.95
C-EC800-385	800@385	1⅜" x 3½"	10.95
C-EC32-32-500	32/32@500	1⅜" x 2"	9.95
C-EC50-50-500	50/50@500	1⅜" x 2"	10.95
C-EC100X2-500	100/100@500	1⅜" x 2⅞"	12.95
C-EC40-20X3-500	40/20/20/20@500	1⅝" x 2"	13.95



Can Capacitor Mounting Clamp

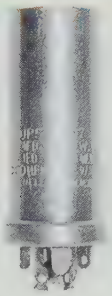
Clamp for mounting electrolytic capacitor cans in vertical position. Supplied with #6-32 screw and nut.

S-H123	1" diameter	$1.95
S-H122	1⅜" diameter	1.95
S-H124	1¾" diameter	1.95
S-H128	1½" diameter	1.95
S-H125	2" diameter	1.95

Multi & Single Section Tubular Electrolytics

Fresh stock - no leakage

	Capacity(µF)@Volts	Diameter x Length	Price
C-ER33-47-160	33/47@160	⅝" x 2¾"	$6.50
C-ER47-47-160	47/47@160	⅝" x 2¾"	6.50
C-ER47-80-160	47/80@160	1" x 3⅝"	7.95
C-ET10-10	10/10@450	⅝" x 2¾"	7.95
C-ER33-33-47	33/33/47@160	1" x 3⅝"	8.50
C-ER33-47-22	33/47@160, 22@25	⅝" x 2¾"	8.50
C-ER33-47-47	33/47/47@160	1" x 3⅝"	8.50
C-ET16-800	16@800, 900 surge	1⅛" x 4¼"	10.50
C-ET25-800	25@800, 900 surge	1⅛" x 4¼"	11.75



Can Capacitor Specials

NOS. Subject to stock on hand. FP is a twist lock, PFP is pc mount which can be used as a twist mount.

	Capacity(μF)@Volts	Type & Size	Price
C-EC200-150	200/150@350	Nippon Chemi-con PFP, 1 3/8" x 4 1/2"	$1.25
C-EC40-20-20	40/20/20@500	Mallory FP, 1 3/8" x 2 1/2"	19.95
C-EC10-10-100	10@300, 10@250, 100@15	FP, 1" x 2 1/2"	2.95
C-EC10-10-350	10/10@350	FP, 1" x 1 1/2"	2.95
C-EC10-10-450	10/10@450	FP, Sprague	9.95
C-EC40-30-10-50	40@400, 30@350, 10@300, 50@25	FP, 1 3/8" x 2"	5.95

Mixed Bag of PET Capacitors

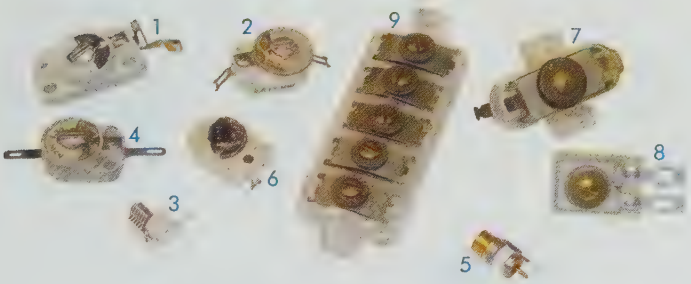
C-BAGO-100PET $1.95

Metalized polyester (PET), round axial lead, 100VDC rating. Values ranging from 1-10 μF. 20 pieces per bag.

Mixed Bag of Capacitors

C-BAGO-100NP $1.95

Electrolytic non-polarized axial lead capacitors. Values range from 12-470 μF, 100V. Used for speaker crossovers. 20 pieces per bag.



APC Variable Trimmer Capacitors

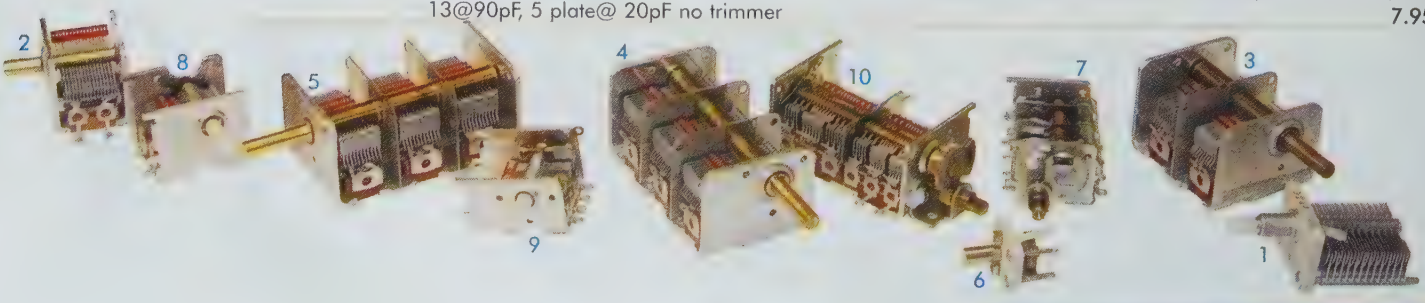
Subject to stock on hand

3-12 pF, ceramic [1]	C-VT12	$0.40
2.5-13 pF, ceramic [2]	C-VT13	.95
1.5-15pF, ceramic [3]	C-VT1D5-15	.50
2.5-9.5pF [4]	C-VT9D5	.50
0-11 pF [5]	C-VT0-11	1.50
1-3.5 pF [6]	C-VT1-3D5	.50
0-150 pF [7]	C-VT150	3.95
0-250 pF [8]	C-VT250	4.95
5 x 60 pF [9]	C-VT60X5	3.95

Variable Capacitors

Subject to stock on hand

C-V2D3-15 [6]	2.3-15 pF. Johnson type S	$6.95
C-V100P [1]	100pF, 1/4" shaft, 7/8" long	17.95
C-V198 [7]	4 gang, tuning. 15@200 pF, 5@30 pF, 13@85 pF, 5@25 pF. No trimmer	5.95
C-V365 [2]	Single section 365 pF, 1 3/16" long frame, 1/4" diameter shaft 9/16" long, capacity increases with clock wise rotation	11.95
C-V300-140 [3]	Two section 17 plate 140-30 pF oscillator section with trimmer, 23 plate 300-30 pF RF section. Capacity increases with counterclockwise rotation. 2 3/16" x 1.8" x 1 5/8", 1/4" rounded shaft	14.95
C-V365-X3 [4]	Three section, 365 pF, 3 1/4" long frame, 1/4" x 1" shaft. Capacity increases with counterclockwise rotation	24.95
C-V500-X3 [5]	Three section 500 pF, 3 3/16" long frame, 1/4" diameter shaft, 11/16" long, capacity increases with counterclock wise rotation *While Supplies Last!*	24.95
C-VW4451 [8]	2 gang, air. 13@180 pF, 11@75 pF	5.95
C-VW4299 [9]	4 gang, air. 5@25 pF, 11@140 pF, 9@72 pF, 5@25 pF. No trimmer	5.95
C-VW4450 [10]	6 gang, air. 9@120pF no trimmer, 11@150pF no trimmer, 5@20pF no trimmer, 7@30pF no trimmer, 13@90pF, 5 plate@ 20pF no trimmer	7.95



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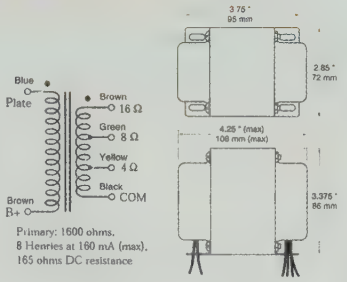
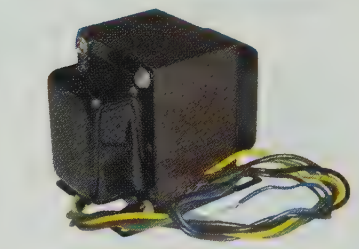
For complete specifications, please visit www.one-electron.com/trans.html

Single Ended Output Transformer P-TUBT-1 $79.95

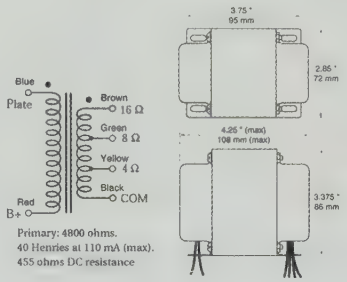
The UBT-1 is a low-impedance single-ended transformer intended for parallel combinations of tubes running at B+ voltages of 250 to 325 volts, such as: two or three EL34s (triode-connected), three 2A3s, two 300Bs, two 6AS7s etc., as well as single sweep tubes run in "enhanced-triode" mode, resulting in 10 to 15 watts of output power. The UBT-1's low impedance gives an exceptionally broad frequency range of 10Hz to over 75KHz (at 1 watt). This transformer has been the basis for excellent-sounding single-ended amps, and is notable for its clean, detailed sound. 6.1 lbs.

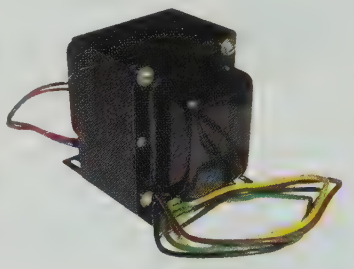




Single Ended Output Transformer P-TUBT-2 $89.95

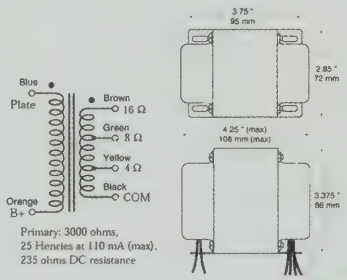
The UBT-2 is the same size and power (15 watts) as the UBT-1, but has a higher primary impedance suitable for single tubes running at B+ voltages of 400 to 500 volts, such as: 50, WE 300B, 572-3, etc. The trade-off of a higher impedance transformer is worse bandwidth, but additional interleaving was added in the UBT-2 to extend the frequency range from 10Hz to over 55KHz (at 1 watt). The UBT-2 has also been successfully used as a choke load for shunt-feed output stages. Plate supply voltages over 600 volts are not recommended. 6.1 lbs.

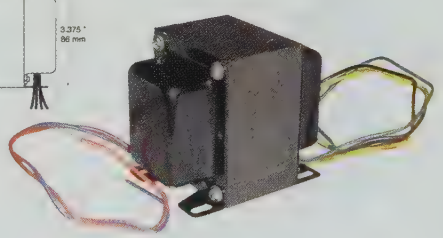




Single Ended Output Transformer P-TUBT-3 $89.95

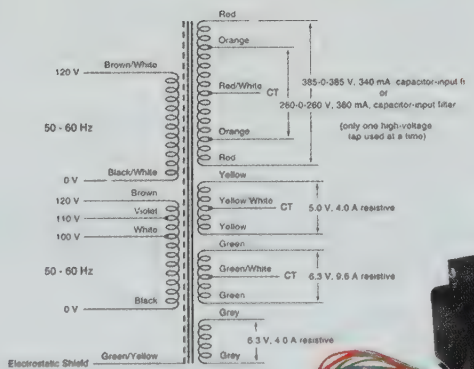
The UBT-3 is the same size and power (15 watts) as the UBT-1 but has a primary impedance suitable for single or paralleled tubes running at B+ voltages of 300 to 400, such as: 2A3, WE 300B, 50 etc. The frequency response is from 10Hz to over 60KHz (at 1 watt). The 3K primary impedance offers lower distortion at only slightly less power in designs using the commonly-specified 2.5K transformers. 6.1 lbs.

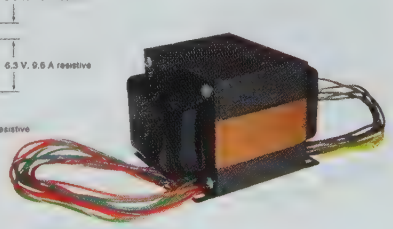




Power Transformer P-TBFT-1B $129.95

The BFT-1B was designed to power a stereo amplifier using UBT-1s in each channel but will also power an 80 watt push-pull tube amplifier. The BFT-1B is slightly larger than earlier versions of the BFT-1, allowing lower flux density and cooler operation. The tapped high-voltage windings and three filament windings provide flexibility in design. An electrostatic shield between the primaries and secondaries reduces power-line noise coupling. The primary arrangements allows use on virtually any power grid in the world. Overall dimensions: 4.5" x 3.75" x 5.875," (11.4 x 9.5 x 14.9 cm). 16 lbs.



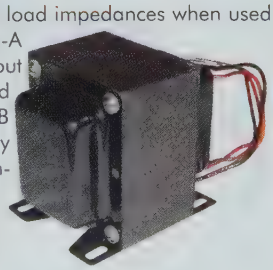


Audio Chokes

The PRC-1 and PRC-2 audio chokes were designed for shunt-feed single-ended output applications, but are also useful where quality inductive loads are needed or as high-quality filter chokes. They have the same overall dimensions and use the same high-quality M6 laminations as the UBT transformers. Each have two identical windings, allowing series and parallel combinations:

Type	Connection	Inductance	DC Current	Resistance	Impedance
PRC-1	parallel	5.5H	230 mA	32	1K
	series	22H	115 mA	128	4K
PRC-2	parallel	12H	150 mA	76	2.3K
	series	48H	75 mA	304	9K

The table shows the maximum recommended load impedances when used as a shunt-feed choke. As with traditional class-A triode amplifiers, the driving impedance is about ½ the load impedance. The recommended load impedances are based on a -1dB response at 20Hz; for better low frequency response, use a choke with higher recommended load (higher inductance). 6.0 lbs.



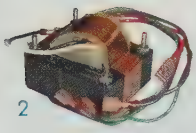
P-RC-1	$54.95
P-RC-2	54.95

Transformer and Choke Replacements for Guitar Amplifiers

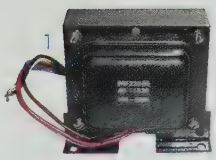
Replacement transformers and chokes for guitar amplifiers. Highest quality replacements available! All made entirely in the United States to the fully rated original specifications. Excellent drop-in replacements for your amplifier

Fully Rated Power Transformer Replacements for Fender Amplifiers

Made precisely to the original Fender® specifications. Drop-in replacements for vintage and current Fender® reissue amps. Made in the USA.



	Wattage	Replacement for:	
P-TF22772	12	Princeton®, Princeton Reverb®, Champ®, Vibro Champ® and early Tweed Deluxe® Equivalent to #125P1B & #022772	$49.95
P-TF49967 [2]	15	Fender® Original! Blues Jr.® Equivalent to #049967	49.95
P-TF41316 [1]	25	Deluxe Reverb® and Deluxe® Equivalent to #125P23B & #041316	59.95
P-TF22723	35	Vibrolux®, late Tremolux® Equivalent to #125P26A & #036483 & #022723	60.95
P-TF22798	50 with rectifier tap	Super Reverb®, Pro Reverb®, Bandmaster Reverb®, Vibroverb® and Tweed Bassman® Equivalent to #125P5D & #022798	74.95
P-TF22814	50	Bassman®, Concert®, Brown Pro® and Bandmaster® Equivalent to #125P7D & #022814	61.95
P-TF22756	100	Twin Reverb®, Dual Showman®, Late Showman® and Bassman 100® Equivalent to #125P34A & #022756	69.95



Replacement Output Transformers for Fender® Amps

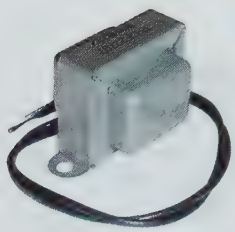
Superior output transformers for optimal performance.

	Wattage	Ohms	Replacement for:	Price
P-TF22905	8	4	Champ®, Vibrochamp® and Bronco® Equivalent to #125A35A & #022905	$27.95
P-TF22913	12	8	Princeton Reverb®, Tweed Deluxe® Equivalent to #125A10B & #022913	28.95
P-TF49969 [2]	15	8	Fender® Original! Blues Jr.® Equivalent to #049969	29.95
P-TF41318	25	8	Deluxe Reverb® and Deluxe® Equivalent to #125A1A & #041318	24.95
P-TF22848	35	4	Pro Reverb®, Tremolux®, Vibrolux®, Bandmaster® and Vibroverb®, and Super®. Equivalent to #125A6A & #022848	34.95
P-TF22855 [1]	50	2	Tweed Bassman®, Super Reverb® and Concert® Equivalent to #125A9A & #022855	59.95
P-TF22871	50	4	Bassman® Equivalent to #125A13A & #022871	59.95
P-TF18343	50	2, 4, 8	General for 50 watt amps Equivalent to #125A13A & #018343	61.95
P-TF22899	100	4	Dual Showman®, Twin Reverb® and Bassman 100® Equivalent to #125A29A & #022899	62.95

Reverb Driver for Fender® Amps

Replacement for all Fender® amps with reverb.

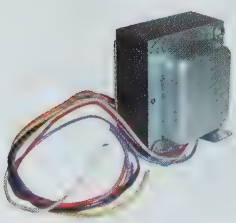
P-TF22921	3.5	4	Equivalent to #125A20B & #022921	$12.95



Replacement Chokes for Fender® Amplifiers

Made precisely to the original Fender® specs. Drop-in replacements for original Fender® amps and current Fender® reissue amps. Made in the USA.

	Rating	Replacement for:	Price
P-CF22707	50mA DC	Deluxe® and Vibrolux®, Reverb units, late Tremolux® Equivalent to #125C3A & #022707	$12.95
P-CF22699	90mA DC	Twin®, Super®, Dual Showman®, Bandmaster®, Bassman®, Concert®, Pro® Equivalent to #125C1A & #022699	13.95



Transformer and Choke Replacements for Marshall™ Amplifiers

Built to vintage specs with exact interleave ratios and materials. Great for upgrading later issue Marshall™ amps. Gives great classic sound. Good replacement for JMP and JCM 800's. For EL34! For more Marshall™ and Vox replacement transformers, see pages 63-64.

P-TM050	50w Output	$69.95
P-TM-P50	50w Power	89.95
P-TM0100	100w Output	74.95
P-TM-P100	100w Power	94.95
P-TM800-C	Filter choke for JCM 800. Genuine Marshall™ replacement	35.95

HAMMOND MANUFACTURING™

Antique Electronic Supply is a full stocking distributor for [illegible] 10% [illegible] Hammond items in our catalog. Don't see what you need? We can special order any Hammond product.

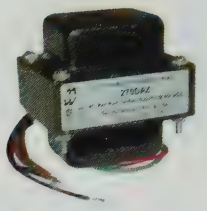
NOTE: [illegible] every receiver be carefully checked before a [illegible] is replaced. Too often, some other defect, such as a defective tube, electrolytic condenser, or a partial circuit short has caused the original burnout and the replacement transformer is also ruined before the real [illegible]

Power Transformers

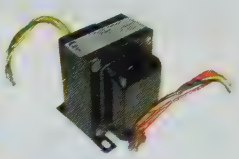
Replacements for 1930 to 1950 AC radios and tube type equipment. 117 Volt primary, 50/60 Hz. Provided with color-coded leads.

	Mfg.	Rating				Mounting Centers	Weight	Price
P-T263AX	Hammond	100-0-100V	100mA	5V, 2A		2.5" x 1.57" vert.	1.4	$34.16
P-T442	AES	125V	15mA	12.6V, .3A		2", U-bracket	0.7	16.95
P-T269AX	Hammond	125-0-125V	100mA	6.3V, 2A		1.56" x 1.5", vert.	1.6	33.49
P-T269EX	Hammond	190-0-190	65mA	6.3V, 2.5A		1.56" x 1.75"	1.8	31.87
P-T261M6*	Hammond	215V	269mA	6.3V, 4A		3" x 2.8125", vert.	3.4	56.12
P-T269JX	Hammond	250-0-250V	60mA	6.3V, 2.5A		1.56" x 1.75" vert.	1.8	34.43
P-T270CAX	Hammond	250-0-250V	70mA	5V, 2A	6.3VCT, 2.5A	2" x 2.0625", vert.	3.2	41.98
P-T270CBX	Hammond	250-0-250V	100mA	5V, 2A	6.3V, 3A	2" x 2.0625", vert.	3.2	63.00
P-T270DAX	Hammond	260-0-260V	90mA	6.3V, 3.5A		2" x 2.125", vert.	3.4	40.50
P-T270DAZ	Hammond	260-0-260V	90mA	6.3V, 3.5A		2.25" x 2.875", horiz.	3.8	41.40
P-T270BX	Hammond	275-0-275V	50mA	5V, 2A	6.3V, 2A	1.69" x 2", vert.	2.2	37.53
P-T270CX	Hammond	275-0-275V	65mA	6.3V, .6A	6.3V, 2.5A	1.69" x 2", vert.	2.4	40.60
P-T270DX	Hammond	275-0-275V	90mA	5V, 2A	6.3, 3A	1.94" x 2" vert.	2.8	42.06
P-T270FX	Hammond	275-0-275V	150mA	5V, 3A	6.3VCT, 5A	2.19" x 2.5", vert.	4.6	49.05
P-T270HX	Hammond	275-0-275V	200mA	5VCT, 3A	6.3VCT, 6A	2.69" x 2.5", vert.	5.8	62.38
P-T272BX	Hammond	300-0-300V	150mA	5V, 2A	6.3V, 3A	2.19" x 2", vert.	3.2	44.00
P-T272FX	Hammond	300-0-300V	150mA	5VCT, 3A	6.3VCT, 5A	2.19" x 2.5", vert.	4.6	56.42
P-T272HX	Hammond	300-0-300V	200mA	5VCT, 3A	6.3VCT, 6A	2.5" x 2.69", vert.	6.2	70.30
P-T272JX	Hammond	300-0-300V	250mA	5VCT, 4A	6.3VCT, 8A	2.81" x 3", vert.	7.8	67.63
P-T273AZ	Hammond	325-0-325V	40mA	5V, 2A	6.3VCT, 2A	2" x 2", horiz.	2.4	45.66
P-T273CZ	Hammond	325-0-325V	150mA	5V, 3A	6.3VCT, 5A	2.5" x 2.5", vert.	5.4	70.94
P-T273DZ	Hammond	350-0-350V	90mA	5V, 2A	6.3VCT, 3A	2.25" x 2.8125", horiz.	4.6	58.58
P-T273BX	Hammond	350-0-350V	175mA	5V, 3A	6.3VCT, 5A	2.69" x 2.5", vert.	5.8	58.21
P-T273DX	Hammond	350-0-350V	90mA	5V, 2A	6.3VCT, 3A	2.25" x 2.375", vert.	4.6	58.58
P-T274AX	Hammond	360-0-360V	120mA	5V, 3A	6.3VCT, 3.5A	2.5" x 2.44", vert.	5.4	54.00
P-T274BX	Hammond	375-0-375V	175mA	5VCT, 3A	6.3VCT, 6A	2.69" x 2.5", vert.	6.2	62.61
P-T278X	Hammond	400-0-400V	200mA	5VCT, 3A	6.3VCT, 6A	2.69" x 2.5", vert.	7.0	78.51
P-T278CX	Hammond	400-0-400V	465mA	6.3VCT, 6A		3.81" x 3", vert.	12.4	83.73
P-T279X	Hammond	425-0-425V	150mA	5VCT, 3A	6.3VCT, 5A	2.69" x 2.5", vert.	6.0	71.39
P-T282X	Hammond	500-0-500V	200mA	5VCT, 3A	6.3VCT, 6A	3.31" x 3", vert.	9.4	85.45

* For European radios



horizontal mount



vertical mount

Classic 300 Series Power Transformers

Picks up where the 200 series leaves off. High quality, high voltage "World Power," with primary voltages of 100, 110, 120, 200, 220, 240 V @50/60 Hz. All have a secondary bias tap at 50 VAC. Concentric wound for low stray field and low noise. Hipot tested to 2500 VAC. Epoxy potted to replace 1650 series output transformers. The P-T300BX is designed specifically for 300B's, the P-T302AX is designed specifically for 2A3's

	VA	Rating					Mounting Centers	Weight	Price
P-T369AX	40	125-0-125V	100MA	6.3VCT, 2A			1.6875" x 2" vert	2.4	$49.10
P-T363CX	119	180-0-180V	250MA	5VCT, 3A			2.4375" x 2.5" vert	5.2	73.64
P-T370BX	55	275-0-275V	50MA	5VCT, 2A	6.3VCT, 2A		1.9375" x 2" vert	3.0	55.22
P-T370FX	142	275-0-275V	150MA	5VCT, 3A	6.3VCT, 5A		2.94" x 2.5" vert	6.0	73.64
P-T372BX	98	300-0-300V	100MA	5VCT, 2A	6.3VCT, 3A		2.1875" x 2.5" vert	4.4	65.04
P-T372FX	150	300-0-300V	150MA	5VCT, 3A	6.3VCT, 5A		2.5" x 2.9375" vert	6.2	83.46
P-T302AX	198	300-0-300V	200MA	2.5VCT, 2.5A	5VCT,3A	6.3VCT, 6A	2.8125" x 3" vert	8.0	98.18
P-T372JX	243	300-0-300V	250MA	5VCT, 4A	6.3VCT, 8A		3" x 3.3125" vert	10.0	100.64
P-T374BX	200	375-0-375V	175MA	5VCT, 3A	6.3VCT, 6A		2.8125" x 3" vert	7.8	92.04
P-T378X	273	400-0-400V	200MA	5VCT, 3A	6.3VCT, 6A		3" x 3.0625" vert	8.8	116.60
P-T300BX	280	400-0-400V	250MA	5VCT, 1.2A	5VCT, 3A	6.3VCT, 6A	3" x 3.8125" vert	11.8	122.72
P-T378CX	465	400-0-400V	465MA	6.3VCT, 6A			3.5" x 3.5625" vert	17.6	125.18

Hammond 1600 Series Transformers

Hammond Classic Tube Transformers

Hammond offers both single-ended and push-pull audiophile tube output transformers in their 1600 series. All specifications shown are at **full rated power**. All include multiple interleaved windings to maximize high frequency response and all (except for the 1650G) include Ultra-Linear taps at the 40% point. High grade laminations (M6) and high quality copper wire are used. The core is varnished and oven baked to ensure quiet operation, even at high ambient temperature. Hammond achieves a classic look to complement any amplifier design by finishing the end bells with a tough, low gloss, black powder paint finish to resist scratching. End bells include knockouts for optional above chassis wiring. From 3 to 280 watts, Hammond has the output transformer for you.

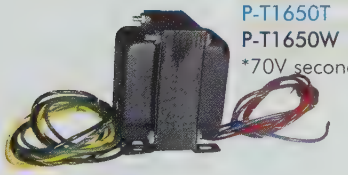
The examples of possible combinations are to help you narrow down the choices of transformers for your favorite tube type. How you operate the tubes (push-pull, push-pull parallel, ultra-linear, etc.) will change the optimum plate to plate load impedance. A tube manual or technical data sheet should be consulted before choosing an output transformer.

1600 Series Push-Pull Transformers

Enclosed (shielded), 4 slot, above chassis Type "X" mounting. Frequency response 30 Hz to 30kHz at full rated power (±1 dB max. ref. 1kHz) minimum. All units have secondary impedance of 4/8/16 ohms. Flexible 8" leads.

	Watts	Primary Imp. (ohms)	Mounting Centers(")	lbs.	Suggested Tube Types	Price
P-T1608	10	8,000CT	1.69" x 2", vert	2.4	6AQ5, 6V6, 6BQ5/EL84	$36.82
P-T1609	10	10,000CT	1.69" x 2", vert	2.4	6AQ5, 6V6, 6BQ5/EL84	36.82
P-T1615	15	5,000CT	2.19" x 2", vert	2.8	2A3, 6A3, 6AQ5, 6B4G, 6L6, 6V6	41.18
P-T1620	20	6,600CT	2.44" x 2", vert	3.8	6AQ5, 6L6, 6V6	42.22
P-T1650F	25	7,600CT	2.44" x 2", vert	3.8	6L6GC, 6V6, 807, 5881, EL34	55.22
P-T1645*	30	5,000CT	2.19" x 2.5", vert	4.2	6L6GC, 6V6, 807, 5881, EL34	55.22
P-T1650E	15	8,000CT	2.5" x 2"	4.0	Replaces old part # P-TS142A	60.46
P-T1650G	35	6,600CT	2.5" x 2.25", vert	4.6	6L6GC, 6V6, 807, 5881, EL34	60.14
P-T1650H	40	6,600CT	2.69" x 2.5", vert	6.0	6L6GC, 807, 5881, EL34	84.58
P-T1650K	50	3,400CT	2.69" x 2.5", vert	6.0	6L6GC, 807, 5881, EL34, 6146B, 6550	89.14
P-T1650N	60	4,300CT	2.94" x 2.5", vert	6.8	6L6GC, 807, 5881, EL34, 6146B, 6550, KT88	79.78
P-T1650P	60	6,600CT	2.94" x 2.5", vert	6.6	6L6GC, 807, 5881, EL34, 6146B, 6550	79.78
P-T1650R	100	5,000CT	3.06" x 3", vert	8.6	807, 5881, EL34, 6146B, 6550, KT88	82.85
P-T1650T	120	1,900CT	3.31" x 3", vert	9.8	6L6GC, 5881, EL34, 6550, KT88	96.28
P-T1650W	280	1,900CT	5.88" x 3.5", vert	27.4	6L6GC, 5881, EL34, 6550, KT88	184.10

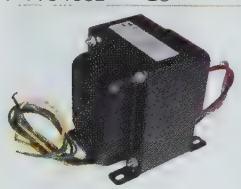
*70V secondary winding in addition to the 4/8/16



1600 Series Single Ended Transformers

Enclosed (shielded), 4 slot, above chassis Type "X" mounting. Frequency response at least 20 Hz to 20 kHz at full rated power (+/- 1db max. ref. 1kHz) minimum. All units have mount centers of 3.81" x 3", and secondary impedance of 4/8/16 ohms. Flexible 8" leads. Each weighs 11 lbs.

	Watts	Primary Imp. (ohms)	Max D.C. Bias	lbs.	Suggested Triodes	Suggested Pentodes	Price
P-T1627SE	25	2,500	160ma	11.6	2A3, 6A3, 6B4G, 300B Parallel 6AQ5, 6V6, EL84, EL34	6L6, 807, 5881, 6550,	$97.52
P-T1628SE	25	5,000	120ma	11.6	211, 300B 807, 5881, 6550, EL84	6AQ5, 6V6, 6L6,	97.52
P-T1629SE	25	6,500	100ma	11.8	811A, 572B, SV572-30		97.52
P-T1640SE	25	1,250	200ma	12.2	Parallel 2A3, 6A3, 6B4G, 300B	Parallel 6550, EL34	97.52



Rotary Impedance Selector - For Use With Hammond 1600 Series Transformers

P-H1600 $14.95

Hammond 1600 series transformers all provide secondary impedances of 4, 8 or 16 ohms, but due to the unique wiring of the secondary, the impedance cannot be changed without rewiring... Until now. We now offer a selector switch, pre-wired and complete with 1/4" jack output. Follow simple instructions provided to wire transformer secondary to switch, mount switch and 1/4" jack in separate 3/8" diameter holes in chassis and you'll easily be able to select output impedance as needed.

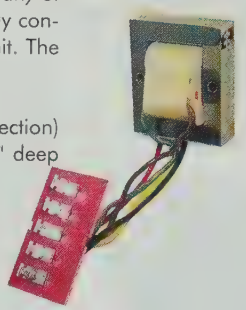
Radiola Audio Replacement Transformer

P-T118944 $29.95

Developed in response to requests from RCA Radiola III-A collectors. The original transformers are usually found with "open" windings due to the fine wire and high turns used, coupled with age. This is a universal replacement type - it will replace *any* of the three audio transformers used (1st audio driver, second audio - phase splitter stage or output transformer), by correctly connecting the 5 lugs. A pin out and connection diagram is included. The cases from the old transformer will fit this new unit. The terminal board is a duplicate of the original.

Key Features

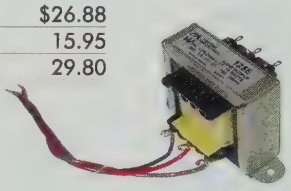
Primary: 4,000 turns, #41 wire (lugs 4 & 2) **Secondary:** 12,000 turns C.T., #41 wire (lugs 5 & 1, lug 3 is C.T. connection) **Termination:** Solder lugs on a 1¾" x 1" terminal board with 4-5" connecting leads **Size:** 1⅞" long x 1 11/16" wide x 1⅜" deep **Lamination Core Size:** ⅝" x ½" **Weight:** 7 oz



Universal Output Transformers

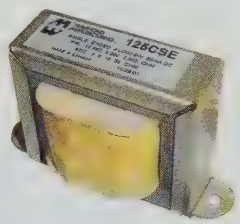
Multi-tap transformers have tables provided to choose pre-calculated impedance ratios. Secondary impedances from 1.5 to 15 ohms. Leads on primary, solder lugs on secondary. U-bracket mounting. For single or push-pull applications.

	Manufacture	Output Watts	Primary Z Ohms	Mounting Centers	lbs.	Price
P-T125A	Hammond	3	1200 - 25,000	1.75"	0.2	$26.88
P-T291	AES	8	4000 - 10,000	2.375"	0.6	15.95
P-T125E	Hammond	15	1200 - 25,000	3.125"	1.6	29.80



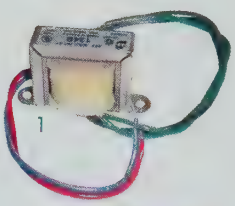
Universal Single Ended Tube Output Transformers

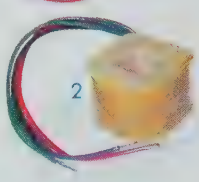
	Audio Watts	Max. D.C. Bias (ma)	lbs.	Price
P-T125ASE	3	25	0.6	$33.62
P-T125BSE	5	45	1.0	34.14
P-T125CSE	8	60	1.6	28.82
P-T125DSE	10	70	2.2	33.38
P-T125ESE	15	80	3.2	37.24



Audio Interstage Transformers

		Imp.-Ohms Pri. to Sec.	Mounting Centers	lbs.	Price
P-T124D	Push-Pull plate to push-pull grids (25 max DC bias)	7,000-15,800	2.375"	0.6	$12.52
P-T124B* [1]	Single ended or push-pull, center-tapped secondary	10,000-90,000	2.0"	0.4	14.32
P-T156	Equivalent to Stancor A53-C. 1:3 ratio overall Center tapped secondary may be used for push-pull grids	10,000-90,000	2.0"	0.4	14.95
P-T431 [2]	Coil assembly only for above (P-T156). Use your own iron to preserve mechanical fit. Coil window is ½" x ½"			0.07	12.95
P-T124E	Multi-purpose, center-tapped primary Center-tapped secondary providing 1:1.5/1:3/1:6 ratio	15,000-135,000	2.5"	1.0	25.15
P-TA-8037	5K primary approx. 3 watts, Freq. response = 100Hz to 15KHz	3.2 ohm secondary	2.0"	0.4	12.95

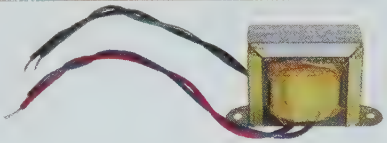


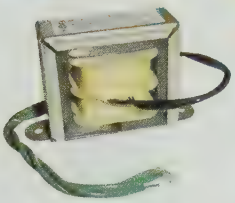


* 49% nickel laminations for greater fidelity

Other Transformers

	Mfg.	Type	Power	Primary	Secondary	Response	Centers	lbs.	Price
P-T31	AES	Output	8W	5K ohm single-ended	8 ohm	100Hz-18KHz	2.375" u-bracket	0.6	$12.95
P-T125H	Hammond	Output	6W	10K ohm CT	2/4/8 ohm	200Hz-80KHz	2.375" u-bracket	0.6	15.26
P-T125J	Hammond	Output	8W	4K or 2.5K ohm CT	6/8 or 3.2/4 ohm	100Hz-25KHz	2.81"	1.0	17.92
P-TK2	AES	Output	8W	10K ohm	2.5K ohm CT		1.75" u-bracket	0.2	1.95
P-T983	Surplus	Output	2W	Audio output 2.5K ohm	8 ohm	100Hz-40KHz	1.5" u-frame	0.11	4.95
P-T292	Surplus	Power		120V	140V@100mA, 28V@20mA, 10.5V@2 amps		3.5"	2.2	17.95



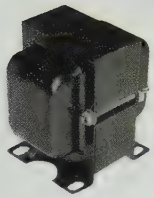


Filament Transformers

115v Primary, 50/60 Hz. U-bracket mounting

	Rating	Mounting Centers	lbs.	Price
P-T166M2	2.5VCT, 3A	2.375"	0.6	$10.90
P-T166Q2	2.5VCT, 6A	2.8125"	1.0	16.24
P-T166S2	2.5VCT, 10A	3.125"	1.6	17.68
P-T166L5	5.0VCT, 2A	2.375"	0.8	14.65
P-T167R5*	5.0VCT, 8A	1.44" x 1.75"	1.6	26.12
P-T166MS	5.0VCT, 3A	2.8125"	1.0	10.90
P-T166RS	5.0VCT, 8A	4.0"	3.4	18.18
P-T166L6	6.3VCT, 2A	2.375"	0.8	14.63
P-T166N6	6.3VCT, 4A	2.8125"	1.0	15.50
P-T166Q6	6.3VCT, 6A	3.13"	1.4	21.42
P-T166S6	6.3VCT, 10A	3.5625"	2.2	25.40
P-T167U6*	6.3VCT, 16A	2.19" x 2.0"	3.4	32.43
P-T167S10*	10.0VCT, 10A	2.19" x 2.0"	3.4	32.26
P-T167L12*	12.6VCT, 2.5A	1.75" x 1.5"	1.4	20.03
P-T166N12	12.6VCT, 4A	3.125"	1.8	19.07

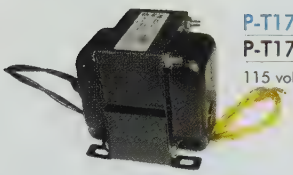
*Enclosed style 4 hole chassis mount



Line Isolation Transformers

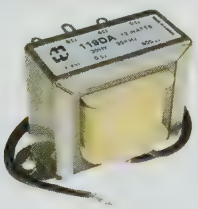
	Mfg.	VA Rating	Mounting Centers	lbs.	Price
P-TN-51X		35	3.125, U-bracket	1.8	$19.95
P-T169SS	Hammond	90	2.19" x 2" vert.	3.4	36.82
P-T169VS	Hammond	175	2.69" x 2.5" vert.	6.0	42.96

115 volt primary, 60 Hz, 115 volt secondary 60Hz, **must be hard wired**



P-T171A	Hammond	100	1.88" x 3"	7.2	61.43
P-T171B	Hammond	200	2.38" x 3"	9.4	74.30

115 volt primary, 50/60 Hz, 115 volt secondary 50/60 Hz, vertical mounting. With line cord.

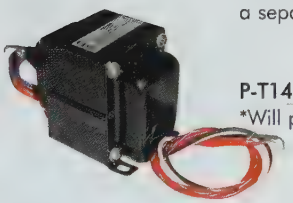


Hammond Transformer P-T119DA $18.32

Built in response to requests from the "Collins Collectors Association"
Isolation Unit: (i.e. separate primary and secondary)
Primary: 600 ohm (with 6" wire leads)
Secondary: 8 ohm with 4 ohm center tap (with solder lugs)
Power: Rated at 12 watts
Frequency Response: 30 Hz-20kHz
Mounting: 2 hole U-bracket mount on 2.8125" mounting centers
Weight: 1.3 lbs

Special Power Transformers with 2.5v Filament Windings (120v 60Hz Primary)

This transformer has been custom manufactured to provide the replacement needs for early 30's radios. It will work in most 6 and 7 tube sets. Vertical mounting shells, with the leads coming out one side so that horizontal mounting may be used. Provides a separate filament winding for audio output stages but both 2.5V windings can be paralleled for the combined current rating.



	Rating			Mounting Centers	lbs.	Price
P-T143	350-0-350v, 70-90ma*	5v, 3A	2.5V, 7.5A	2.5VCT, 3.5A	2.3125" x 2.5"	4.2	$59.95

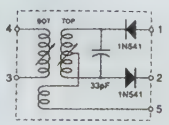
*Will provide 90MA if 5V winding is used with 2A rectifier

I.F. Transformers

NOS I.F. transformers in 3/4" square cans. Hex slug tuned.

	Hz	Mounting	Price
P-C218 [1]	10.7 mHz	Universal PC mount	$2.95
P-C10D7 [2]	10.7 MHz Ratio Det	PC mount	5.95

1



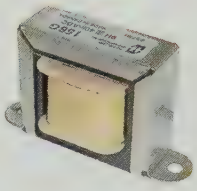
2

I.F. Transformers for Transistor Radios

	Hz	Description	Price
P-C208R	455 Hz	Red cap- detector	$0.45
P-C208B	455 Hz	Blue cap- mixer	.45

Filter Chokes

	Mfg.	Rating		Max. VDC	Resistance in ohms	Mounting Centers	lbs.	Price
P-T155B	Hammond	6 mH	2000mA	400	0.3	2" u-frame	0.4	$8.90
P-T156R	Hammond	1.5 Henries	200mA	400	56	2.375" u-frame	0.7	10.20
P-T154M	Hammond	2 Henries	100mA	300	175	1.75" u-frame	0.3	8.41
P-T159S	Hammond	4 Henries	225mA	500	65	3.56" u-frame	2.3	20.62
P-T155H	Hammond	5 Henries	50mA	400	270	2" u-frame	0.4	10.23
P-T158Q	Hammond	5 Henries	150mA	400	105	2.8125" u-frame	1.3	16.73
P-T193H	Hammond	5 Henries	200mA	600	65	1.6875" x 2" vert	2.5	24.70
P-T193L	Hammond	5 Henries	300mA	800	57	2.4375" x 2.5" vert	5.5	30.58
P-T193P	Hammond	5 Henries	500mA	800	26	3" x 3.31"	10.3	71.64
P-T159Q	Hammond	7 Henries	150mA	500	100	3.56" u-frame	2.3	20.96
P-T193D	Hammond	8 Henries	150mA	600	75	2.5" x 2.1875" vert	3.4	29.81
P-T154G	Hammond	9 Henries	40mA	300	700	1.75" u-frame	0.2	8.84
P-T156G	Hammond	9 Henries	40mA	400	300	2.38" u-frame	0.6	9.89
P-T157J	Hammond	10 Henries	65mA	400	205	2.8125" u-frame	1.0	18.32
P-TC-7X	Triad	10 Henries	90mA	400	270	2.8125" u-frame	1.4	17.95
P-T159P	Hammond	10 Henries	125mA	500	155	3.56" u-frame	2.2	21.20
P-T193Q	Hammond	10 Henries	500mA	1000	53	4.31" x 3" vert	14.6	66.90
P-T158M	Hammond	10 Henries	100mA	400	195	2.8125" u-frame	1.2	16.52
P-T193G	Hammond	10 Henries	150mA	800	102	1.9375" x 2.5" vert	3.8	43.94
P-T193J	Hammond	10 Henries	200mA	800	82	2.4375" x 2.5" vert	5.4	41.13
P-T193M	Hammond	10 Henries	300mA	800	63	3" x 3.3125" vert	10.0	50.28
P-T193B	Hammond	12 Henries	100mA	600	155	1.6875" x 2" vert	2.4	24.68
P-T158L	Hammond	15 Henries	75mA	400	411	2.8125" u-frame	1.2	16.65
P-T159M	Hammond	15 Henries	100mA	500	256	3.56" u-frame	2.4	21.20
P-T154E	Hammond	20 Henries	20mA	300	1666	1.75" u-frame	0.2	9.25
P-T193C	Hammond	20 Henries	100mA	600	181	2" x 2.1875" vert	2.8	29.84
P-T157G	Hammond	30 Henries	40mA	400	595	2.180" u-frame	1.0	19.08
P-T155C	Hammond	60 Henries	8mA	400	2750	2" u-frame	0.4	9.89
P-T156C	Hammond	150 Henries	8mA	400	3700	2.38" u-frame	0.6	10.77

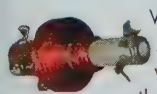


R.F. Chokes

3 section windings on ferrite forms approximately 1¼" long by 9/16" over windings. With axial leads 1½" long. 5% tolerance.

	Inductance	Resistance	Max. DC Current	Price
P-C206 [2]	1.2mH			$1.00
P-C1535B [1]	2.5 mH	9 ohms	160mA	3.40
P-C1535D	5.0 mH	14 ohms	160mA	3.55
P-C1535G	10.0 mH	31 ohms	100mA	3.88
P-C1535J	25.0 mH	82 ohms	65mA	3.98

Universal Replacement Coils



Will replace broadcast band coils in any tube type radio. Adjustable inductance for perfect tracking. Mount on bus wire leads or in 5/16" hole. Coils are similar to Miller numbers that correspond.

P-C70-A	Antenna Coil	$7.75
P-C70-OSC	Oscillator Coil	7.75
P-C70-RF	R.F. Coil	7.75

Ferrite Rods

Rods are made of 61 Ferrite material, and have a broadcast band of 640KC to 1650KC.

P-FR1	.375" ± 0.020" diameter x 5.00" ± 0.100" long	$8.95
P-FR2	.375" ± 0.020" diameter x 7.50" ± 0.150" long	9.95

Solid State Vibrator Replacements

New manufacture solid-state replacements for 6 volt and 12 volt 3 and 4 pin vibrators. 1½" diameter x 2¾" high aluminum can. **New and improved! Now lighter (no longer potted) and more efficient.** *Replace your buffer capacitor when you replace your vibrator!*

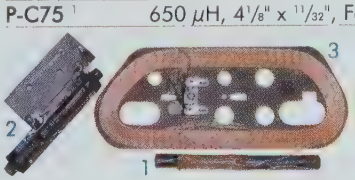
P-V1015N	6V, 4 pin, negative ground	$29.95
P-V1015P	6V, 4 pin, positive ground	29.95
P-V2015N	12V, 4 pin, negative ground	29.95
P-V2015P	12V, 4 pin, positive ground	29.95
P-V2215N	12V, 3 pin, negative ground	29.95

Oscillator Coils

P-C76	3 lug, 225 μH	$1.95
P-C78	3 lug, 142 μH	1.95
P-C77	4 lug, 125 μH	1.95

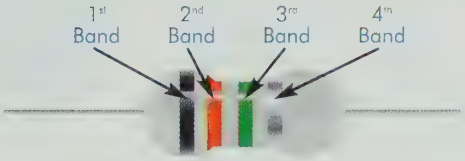
Antenna Coils

P-C72 [1]	230 μH, 4¼" x 11/32", Ferrite	$3.95
P-C73 [2]	250 μH, 3½" x 9/32", Ferrite	3.95
P-C74 [3]	270 μH, 6¾" x 2¾"	3.95
P-C75 [1]	650 μH, 4⅛" x 11/32", Ferrite	3.95



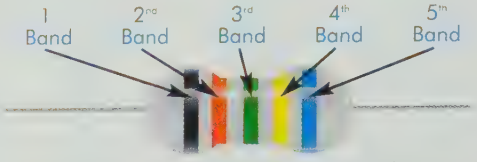
How to "Read" a Resistor

Most resistors are color coded with multiple bands to identify the resistance value and the tolerance. While actually measuring the resistance of a resistor before using it is a good idea, it's also a good idea to know what the resistance is supposed to be. Resistors (especially carbon composition) can drift in their actual resistance. Keep a stock of fresh resistors on hand. Use the following Standard EIA color code tables to identify resistors. See the tech section on our website www.tubesandmore.com for more information, or see the gift page (110) for a color code chart you can purchase.



4 band: ±2%, ±5% and ±10% tolerance

Color	1st band (1st figure)	2nd band (2nd figure)	3rd band (multiplier)	4th band (tolerance)
Black	0	0	10^0	
Brown	1	1	10^1	
Red	2	2	10^2	±2%
Orange	3	3	10^3	
Yellow	4	4	10^4	
Green	5	5	10^5	
Blue	6	6	10^6	
Violet	7	7	10^7	
Gray	8	8	10^8	
White	9	9	10^9	
Gold			10^{-1}	±5%
Silver			10^{-2}	±10%



5 band: ±.1%, ±.25%, ±.5% and ±1% tolerance

Color	1st band (1st figure)	2nd band (2nd figure)	3rd band (3rd figure)	4th band (multiplier)	5th band (tolerance)
Black	0	0	0	10^0	
Brown	1	1	1	10^1	±1%
Red	2	2	2	10^2	
Orange	3	3	3	10^3	
Yellow	4	4	4	10^4	
Green	5	5	5	10^5	±0.5%
Blue	6	6	6	10^6	±0.25%
Violet	7	7	7	10^7	±0.1%
Gray	8	8	8	10^8	
White	9	9	9	10^9	
Gold				10^{-1}	
Silver				10^{-2}	

How to Order Resistors

1) Determine the type of resistor you want. For example, carbon film, 1 watt. The part number begins with "R-B" for this type.
2) Determine the ohm value you want. For example, 1K (1,000 ohms).
3) Order "R-B1K" in the package size you want. Example: R-B1K, 20 pcs.

XICON®

Carbon Film Resistors

Carbon film resistors are made by vacuum depositing a thin carbon film on a ceramic form. Available in ½ and 1 watt ratings. A good choice for applications which require a steady, low power drop. ±5% tolerance, -55° C ~ 155° C operating range. High stability, low noise, moisture stable. EIA color coded. High quality performance at an economical price

1/2 Watt .4" long x .14" dia., 350 V working, 700 V overload

R-A____ (OHM)	Pkg/5	$0.50
	Pkg/20	1.20
	Pkg/100	3.00

1 Watt .5" long x .14" dia., 500 V working, 1,000 V overload

R-B____ (OHM)	Pkg/5	$0.85
	Pkg/ 20	2.40
	Pkg/100	8.80

1.0	30	390	2.7K	27K	330K
1.5	33	470	3.0K	33K	470K
2.0	39	510	3.3K	39K	680K
2.4	47	620	3.9K	47K	820K
2.7	51	680	4.3K	51K	1.0M
3.3	68	750	4.7K	56K	1.5M
4.7	82	820	5.1K	68K	2.0M
5.1	100	1.0K	5.6K	75K	3.0M
6.8	110	1.1K	6.2K	82K	4.7M
8.2	120	1.2K	6.8K	100K	6.8M
10	150	1.5K	7.5K	110K	8.2M
12	180	1.6K	8.2K	120K	
15	220	1.8K	10K	150K	
20	240	2.0K	15K	200K	
22	270	2.2K	20K	220K	
27	330	2.4K	22K	270K	

XICON® Carbon Composition Resistors

Made by mixing carbon particles with a binder molded into a cylindrical shape, then baked. Resistance decreases as temperature increases. Resistance more prone to drifting than with other types. Available in ½ watt ratings. Standard "classic" resistor. 0.38" long x 0.41" diameter. ±5% tolerance, -55° C ~ 125° C operating range, 350V working, 700V overload. Low Inductance, low capacitance. Better pulse endurance characteristics than film type resistors. EIA color coded.

Below 1 meg ohm			1 meg ohm and Above		
R-I____ (OHM)	pkg/5	$1.25	R-J____ (OHM)	pkg/5	$1.75
	pkg/20	4.00		pkg/20	5.80
	pkg/100	12.50		pkg/100	20.00

2.2	47	390	2.7K	22K	150K	1.2M
2.7	51	470	3.3K	27K	200K	1.5M
3.0	68	510	3.6K	33K	220K	2.2M
3.9	82	620	4.7K	39K	240K	2.4M
4.7	100	680	5.1K	47K	270K	2.7M
5.1	110	750	5.6K	51K	330K	3.3M
6.8	120	820	6.2K	56K	390K	4.7M
8.2	150	1.0K	6.8K	62K	470K	5.6M
10	180	1.1K	7.5K	68K	510K	6.8M
12	220	1.2K	8.2K	75K	620K	8.2M
15	240	1.5K	10K	82K	680K	
20	270	1.8K	12K	100K	750K	
27	330	2.2K	15K	110K	820K	
36	360	2.4K	20K	120K	1.0M	

XICON® Metal Film Resistors

Consists of a resistive element of an extremely thin layer of metal alloy vacuum deposited on a substrate. Precise and quiet. 1/2 watt ratings. 0.4" long x 0.14" diameter. ±1% tolerance, -55° C ~ 155° C operating range, 350V working, 700V overload. Epoxy coated, nickel chromium ceramic substrate, alloy coated leads, welded end caps. EIA color coded.

R-M____ (OHM)	pkg/5	$0.85
	pkg/20	2.40
	pkg/100	8.80

10	120	680	5.1K	47K	240K
12	150	820	6.2K	51K	270K
15	180	1.0K	6.8K	62K	330K
20	220	1.1K	7.5K	68K	470K
27	240	1.2K	8.2K	75K	511K
36	270	1.5K	10K	82K	680K
47	330	2.2K	15K	100K	820K
51	360	2.4K	20K	110K	1.0M
68	390	2.7K	22K	120K	1.5M
82	470	3.3K	27K	150K	2.2M
100	510	3.9K	33K	200K	
110	620	4.7K	39K	220K	

XICON® Metal Oxide Power Resistors

Metal Oxide resistors are for applications where stability under high temperature conditions is required. Available in 1 and 2 watt ratings. ±5% tolerance, -55° C ~ 240° C operating range (derated over 70° C), 350V working, 600V overload. Excellent flame retardant coating. Stable performance in diverse conditions. High purity ceramic core. EIA color coded.

1 Watt 0.47" long x 0.20" diameter

R-E____ (OHM)	pkg/5	$0.90
	pkg/20	2.80
	pkg/100	10.50

2 Watt 0.63" long x 0.22" diameter

R-F____ (OHM)	pkg/5	$1.10
	pkg/20	3.60
	pkg/100	12.00

0.47	27	270	1.8K	10K	120K
1.0	30	300	2.0K	12K	150K
2.0	39	330	2.2K	15K	200K
2.4	47	390	2.4K	20K	220K
2.7	51	470	2.7K	22K	270K
3.3	68	510	3.0K	24K	330K
4.7	82	560	3.3K	27K	470K
5.1	100	680	3.9K	30K	510K
6.8	110	750	4.3K	33K	680K
8.2	120	820	4.7K	47K	820K
10	150	1.0K	5.1K	51K	1.0M
12	180	1.1K	6.2K	68K	
15	200	1.2K	6.8K	75K	
20	220	1.5K	7.5K	82K	
22	240	1.6K	8.2K	100K	

XICON® Power Resistors

Wire wound resistors are made by wrapping a length of high resistance wire onto an insulating form. Metal oxide resistors are made by depositing tin oxide on the substrate, providing good stability. Ceramic flame retardant package. Exceptionally small, sturdy and reliable. Available in 5 watt and 10 watt ratings. ±5% tolerance, -55° C ~ 155° C operating range (derated over 70° C), 350V working, 700V overload. Excellent moisture resistance. Stable performance in diverse conditions. Sealed with special cement. High temperature stability

5 Watt 0.86" long x 0.39" square

R-Q____ (OHM)	each	$0.45
	pkg/10	4.00

10 Watt 1.93" long x 0.39" square

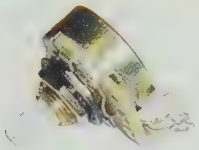
R-R____ (OHM)	each	$0.60
	pkg/10	5.00

	Wire Wound	Metal Oxide
5W	0.5-47	50-25K
10W	0.5-750	1.0K-25K

0.5	7.5	50	150	680	3.0K
1	8.2	68	200	750	4.7K
2	10	75	250	820	5.0K
3	15	82	300	1.0K	10K
4	20	100	360	1.5K	20K
5	30	110	400	2.0K	25K
6.8	47	120	500	2.7K	

Potentiometers

CTS Pots



½ watt, ⅜" mounting, ¼" splined nylon shaft for set screw or push on. For most US made amps.

250K audio	R-VC250KA	$3.95
500K audio	R-VC500KA	3.95
1 meg audio	R-VC1MA	3.95

Original Fender® Pots

For most Stratocaster & Telecaster Guitars

250K ohm, Original TBX tone control	R-VTBX	$10.95
250K ohm, Split Shaft	R-V250K-SP	4.50
250K ohm, Solid Shaft	R-V250K-SS	5.25
250K ohm, Solid Shaft, no load	R-V250K-SS-NL	5.25
250K ohm, Push Pull, Split Shaft	R-V250K-PP-SP	12.95
250K ohm, Split Shaft, no load	R-V250K-SP-NL	5.25
500K ohm, Split Shaft	R-V500K-SP	5.25
500K ohm, Solid Shaft	R-V500K-SS	5.25
1M ohm, Solid Shaft	R-V1M-SS	6.25
Hex nut for Fender® pots. Package of 12	S-HRVNT	2.50
Lock Washer for Fender® pots. Package of 12	S-HRVLW	2.50

Original Gibson Pots

For Gibson™ Guitars

300K ohm, Linear taper, Long shaft	R-V300-GIB	$7.95
300K ohm, Linear taper, Short shaft	R-V310-GIB	7.95
500K ohm, Audio taper, Long shaft	R-V500-GIB	7.95
500K ohm, Audio taper, Short shaft	R-V510-GIB	7.95
500K ohm, Audio taper, Push-pull, Short shaft	R-V520-GIB	14.95

Push-Push & Push-Pull Pots

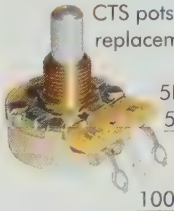
Pusher Pots are the ultimate "push/push" pots and undisputedly the most effective switches available today. One downward touch does it all! No clutching and fumbling ever again! DPDT, split shafts. ⅜" nut diameter, ⅜" washer.

250K audio, push-push	R-VPSH-250KA-SP	$11.95
500K audio, push-push	R-VPSH-500KA-SP	11.95
Push-pull pot. 7mm bushing, 1 meg, ¼" solid metal shaft. Used in many Fender® applications	R-VPP-1MA	3.95

Replacement Pots for Wah

100K Wah pot from Fulltone [1]	R-VWAH	$16.95
Life Pot 100K Wah pot. High grade replacement and upgrade wah pedal pot supplied with all necessary hardware and gear for immediate installation [2]	R-VWAH-LP	15.95

Fender® CTS Pots



CTS pots in Fender® replacement part packaging. Original replacement parts for many Fender® items.

5K audio	R-VCTS-5K-A	$4.95
5K linear	R-VCTS-5K-L	4.95
10K audio	R-VCTS-10K-A	4.95
50K reverse audio	R-VCTS-50K-RA	6.95
100K linear	R-VCTS-100K-L	4.95
500K audio	R-VCTS-500K-A	4.95
3M reverse audio	R-VCTS-3M-RA	5.95

Fender® Snap-in Pots

Fender® Amp Replacement potentiometers.

For Blues Jr. Amps		
25K Linear, middle	R-VBJ-25KL	$2.50
50K Linear, reverb	R-VBJ-50KL	2.50
250K Audio, treble	R-VBJ-250KA	2.50
250K Linear, bass	R-VBJ-250KL	2.50
1M Audio, volume	R-VBJ-1MA	2.50
For Hot Rod Deluxe Amps		
25K Audio, for presence	R-VHD-25KA	$2.95
25K Linear, master & reverb	R-VHD-25KL	2.95
250K Audio, vol drive & bass	R-VHD-250KA	2.95

Miniature Alpha Pots for Guitars

16mm, ¼" Split, knurled shaft. Push-on.

300K ohm, Linear taper	R-VAM300KL	$1.50
500K ohm, Audio taper	R-VAM500KA	1.50
1M ohm, Audio taper	R-VAM1MA	1.50

Dunlop Potentiometers

Hot Potz 100K Crybaby Potentiometer [1]	P-ECB-24	$24.95
Hot Potz 470k Pot [2]	P-ECB-24A	20.25
Hot Potz II 100K Crybaby Pot [3]	P-ECB-24B	20.25
Mr. Crybaby Super Pot [4]	P-ECB-24EW	39.95

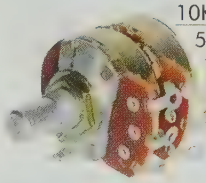
Alpha Pots

24mm carbon composition. 300° rotation. ½ watt, 500VDC rating for linear taper, ¼ watt, 250VDC rating for audio taper. ¼" diameter shaft, 8mm bushing. Solder lugs.

Single Audio/Log

1K	R-VA1KA	$1.50
5K	R-VA5KA	1.50
10K	R-VA10KA	1.50
50K	R-VA50KA	1.50
500K	R-VA500KA	1.50
1M	R-VA1MA	1.50

Dual Audio/Log



10K	R-VA2X10KA	$2.50
50K	R-VA2X50KA	2.50
100K	R-VA2X100KA	2.50
250K	R-VA2X250KA	2.50
500K	R-VA2X500KA	2.50
1M	R-VA2X1MA	2.50

Single Linear

1K	R-VA1KL	$1.50
5K	R-VA5KL	1.50
10K	R-VA10KL	1.50
50K	R-VA50KL	1.50
100K	R-VA100KL	1.50
250K	R-VA250KL	1.50
1M	R-VA1ML	1.50
100K 2" shaft	R-VA100KLX	1.75

Dual Linear

50K	R-VA2X50KL	$2.50
100K	R-VA2X100KL	2.50
250K	R-VA2X250KL	2.50
500K	R-VA2X500KL	2.50
1M	R-VA2X1ML	2.50

Alpha Pots

Same as above but with **⅜" bushings**. Exact fit for American made amplifiers.

Single Audio/Log

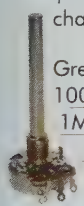
10K	R-V38-10KA	$1.75
50K Reverse Audio	R-V38-50K-RA	1.75
100K	R-V38-100KA	1.75
250K	R-V38-250KA	1.75
500K	R-V38-500KA	1.75
1M	R-V38-1MA	1.75

Single Linear

5K	R-V38-5KL	$1.75
25K	R-V38-25KL	1.75
100K	R-V38-100KL	1.75
250K	R-V38-250KL	1.75
2M	R-V38-2ML	1.75

NeOhm NOS Pots

Composition element control designed for applications where bushingless controls are required. Phenolic shaft insures insulation if control is used on a hot chassis. Pot can be adjusted with a screwdriver from the top (or knob on ¼" knurled shaft) or from the bottom of the chassis.



Great for antique radios. 24 mm body, 2" solid shaft length, ¼" diameter.

100k dual, audio. ¼" x 2" shaft	R-V100KD-N	$4.95
1M, single, linear. ¼" x 2" shaft	R-V1M-N1	3.95
1M dual, 300k tap. ¼" x 2" shaft	R-V1MD-N1	5.95
1M dual, linear. ¼" x 2" shaft	R-V1MD-N2	4.95

100K linear. Twist tab mount	R-V100K-N	$1.95
200K linear. Twist tab mount	R-V200K-N1	1.95
250K linear. Twist tab mount	R-V250K-N1	1.95
2M linear. Twist tab mount	R-V2M-N1	1.95
500K linear. Twist tab mount	R-V500K-N2	1.95
50K linear. Twist tab mount	R-V50K-N1	1.95

Switched NeOhm Pots

10k switch, audio. ¼" x 2" shaft	R-V10K-N	3.95
1M switch, linear. ¼" x 2½" shaft	R-V1M-N2	3.95
1M switch, audio ¼" x 2" shaft	R-V1M-N3	3.95
250k switch, audio ¼" x 2" shaft	R-V250K-N2	3.95
500k switch, linear ¼" x 2" shaft	R-V500K-N1	3.95
500k switch, audio. ¼" x 2" shaft	R-V500K-N3	3.95

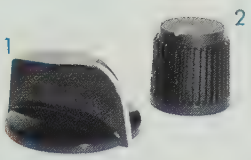
Switched Potentiometers

Great for antique radios! Single pole, single throw (SPST) switch, 2 amp 125VAC. 24mm body, 1⅜" shaft, ¼" diameter, solid shaft.

500K ohm	R-VS-500KA	$2.25
1M ohm	R-VS-1MA	2.25

NOS Potentiometers

	Value (ohms)	Taper	Shaft	Other	
R-V-LPAD08	8		¼" knurled screwdriver	100W High Quality, Made in Japan	$8.95
R-V25K1	25K	linear	¼" round	switch	.75
R-V25K3	25K	audio	5/16" flatted shaft	min.	.75
R-V50KD4	50K	audio	¼" & 7/16"	dual control	.75
R-V50K1	50K		¼" screwdriver	Alps Brand	.95
R-V-LPAD16	16		¼" knurled screwdriver	100W High Quality, Made in Japan	8.95



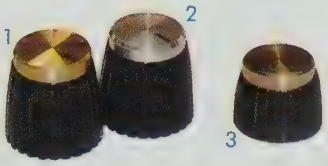
Ampeg Amp Knobs

Sold individually

Stove knob for large pots. D shaft [1]	P-K322	$2.25
Stove knob for smaller pots [1]	P-K323	2.75
Classic knob. D shaft [2]	P-K324	2.75

Fender® Amp Knobs

Skirted, 1-10, package of 6 [1]	P-K314	$19.95
White Vintage, package of 6 [2]	P-K315	19.95
Brown Vintage, package of 6 [3]	P-K316	19.95
Chicken head, black, package of 6 [4]	P-K318	11.95
Skirted Roc Pro, black, package of 6 [5]	P-K319	9.95
Red Pointer, package of 6 [6]	P-K320	9.95
Black Pointer, package of 6 [7]	P-K321	9.95



Great Replacements for Marshall™ Amps and Scott Receivers

¼" shaft, Sold individually

Black with gold cap. Set screw, ¾" height [1]	P-K340	$2.25
Black with silver cap. Set screw, ¾" height [2]	P-K342	2.25
Black with silver cap. Push on, ¾" height [2]	P-K343	2.25
Original Marshall, Brown with gold cap. Set screw, ⅝" height [3]	P-K400	2.95
Original Marshall, Brown with gold cap. Push on, ⅝" height [3]	P-K401	2.95

see pages 62 & 64 for Marshall™ and Vox® knobs

Fender® Guitar Knobs

Original for Strat, 1 volume, 2 tone, white	P-K330	$5.95
Original for Strat, 1 volume, 2 tone, black [2]	P-K331	5.95
Original for Tele, Chrome Dome, package of 2	P-K332	15.95
Original Tele switch tip, package of 2 [4]	P-K334	4.95
Original Strat switch tip, package of 2 [5]	P-K335	3.95

Gibson Guitar Knobs

Original Speed type, black, package of 4 [1]	P-K500	$10.95
Original Speed type, gold, package of 4 [2]	P-K501	10.95
Original Top Hat type, black, package of 4 [3]	P-K502	10.95
Original Top Hat type, gold, package of 4 [4]	P-K503	10.95
Original Top Hat type, vintage amber, package of 4 [5]	P-K504	10.95
Original Speed type, black with silver metal insert. Package of 4: 2 volume, 2 tone [6]	P-K505	10.95
Original Speed type, black w/gold metal insert. Package of 4: 2 volume, 2 tone [7]	P-K506	10.95
Original Speed type, gold w/gold metal insert. Package of 4: 2 volume, 2 tone [8]	P-K507	10.95
Original switch cap for toggle, black [9]	P-SW03	2.95
Original switch cap for toggle, white [10]	P-SW04	2.95
Original switch cap for toggle, vintage amber [11]	P-SW05	3.75
Original switch cap for 5 position switch, black [12]	P-SW06	2.95

Generic Replacement Speed Knobs with Knurled Shaft

Black	P-K905	$1.95
Amber	P-K907	1.95
Gold	P-K906	1.95

Generic Replacement Bell Knobs with Knurled Shaft

Black	P-K900	$1.95
Gold	P-K901	1.95
Amber	P-K902	1.95

Generic Replacement Numbered Knobs, 0-10

Volume	P-KV100	$1.95
Tone	P-KT200	1.95

Chicken Head with Set Screw and Brass Insert

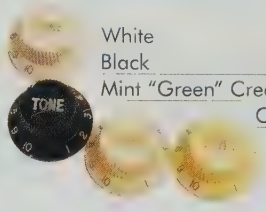
High quality, identical to P-K318. Sold individually

Black	P-K300	$1.25
Red	P-K300R	1.25
White	P-K300W	1.25
Blue	P-K300BU	1.25
Yellow	P-K300Y	1.25
Cream	P-K300C	1.25

Generic Replacement Guitar Volume Knobs

White	P-KV800-W	$0.95
Black	P-KV800-B	.95
Mint "Green" Cream	P-KV800-MG	.95
Cream	P-KV800-C	.95

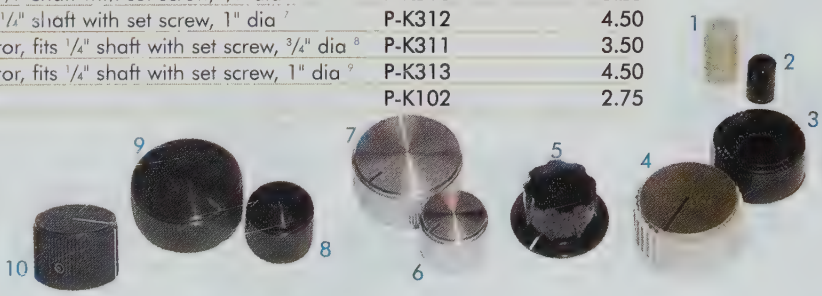
Generic Replacement Guitar Tone Knobs



White	P-KT700-W	$0.95
Black	P-KT700-B	.95
Mint "Green" Cream	P-KT700-MG	.95
Cream	P-KT700-C	.95

Miscellaneous NOS and Generic Replacement Knobs

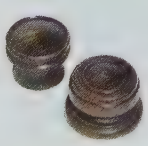
Ivory. 7/8" x 7/16" dia. Pushbutton (Zenith)	P-K923	$0.75
Black. 9/16" long, 3/8" diameter pushbutton [2]	P-K810	.75
Brown. Late 1930's style radio, injection molded plastic. 1" dia. fits 1/4" shaft, with set screw [3]	P-K981	5.95
Ivory. Brushed face knob with indicator line, fits 1/4" shaft, 1 1/4" diameter, double set screw [4]	P-K304	2.25
NOS knob. Fits 1/4" knurled shaft, 1 1/8" dia, black, good for amps, kits etc [5]	P-K986	1.95
Knurled aluminum. Positive grip, notched tip indicator, fits 1/4" shaft with set screw, 3/4" dia [6]	P-K310	3.25
Knurled aluminum. Positive grip, notched tip indicator, fits 1/4" shaft with set screw, 1" dia [7]	P-K312	4.50
Knurled aluminum. Black, positive grip, notched tip indicator, fits 1/4" shaft with set screw, 3/4" dia [8]	P-K311	3.50
Knurled aluminum. Black, positive grip, notched tip indicator, fits 1/4" shaft with set screw, 1" dia [9]	P-K313	4.50
Cylindrical with pointer. 1" base. Black [10]	P-K102	2.75



Walnut Wood Knobs

Exact reproduction of an early wood knob commonly found on many radios from 1928-1934. Knob is 1" diameter and 3/4" deep, with metal insert and set screw to fit on 1/4" diameter shaft P-K903 $6.95

Similar to above except different style with 1 1/8" skirt at base of knob P-K971 6.95

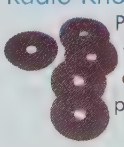


Knob Springs

Assortments of knob springs for half moon shaft. All are "D" shaped and sold in bags of six.

3/8" high x 9/32" overall diameter	P-KS215	$0.96
3/8" high x 13/32" overall diameter	P-KS221	1.20

Radio Knob Felt

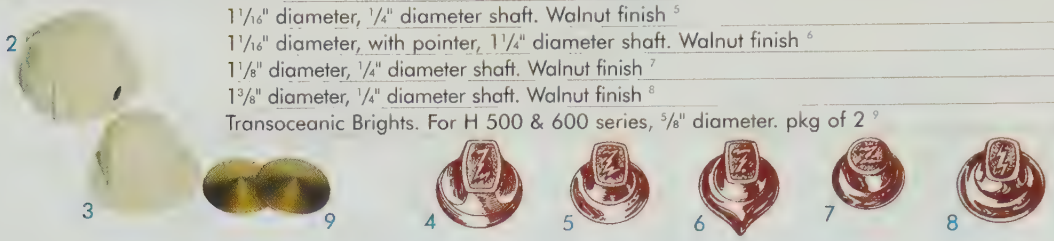


Premium quality wool felt washers. Medium brown in color, these washers will resist wear and hold their shape over time. All have center holes punched. Most have 1/4" interior diameter. Sold in packages of 5 per size.

1/4" overall diameter	P-H181	$1.75
3/4" overall diameter	P-H200	1.80
7/8" overall diameter	P-H201	1.95
1" overall diameter	P-H202	2.10
1 1/4" overall diameter	P-H203	2.25

Reproduction Zenith Molded Plastic Knobs & Brights

1¾" diameter shaft. Ivory, tuning knob [1]	P-K189	$5.75
1" diameter, 9/32" shaft. Ivory [2]	P-K190	5.75
1" diameter, ¼" split shaft rounded top. Ivory [3]	P-K192	5.75
1⅜" diameter, ¼" diameter shaft. Walnut finish [4]	P-K193	6.95
1 1/16" diameter, ¼" diameter shaft. Walnut finish [5]	P-K194	6.75
1 1/16" diameter, with pointer, 1¼" diameter shaft. Walnut finish [6]	P-K195	6.75
1⅛" diameter, ¼" diameter shaft. Walnut finish [7]	P-K196	6.75
1⅜" diameter, ¼" diameter shaft. Walnut finish [8]	P-K204	6.95
Transoceanic Brights. For H 500 & 600 series, ⅝" diameter. pkg of 2 [9]	P-K985	5.95



Reproduction RCA & Atwater Kent Molded Plastic Knobs

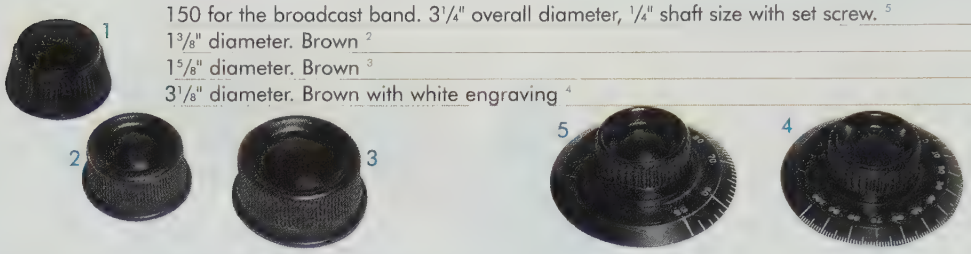
RCA

1⅜" diameter, ¼" shaft. Brown [1]	P-K197	$5.75

Atwater Kent

Direct reading channel dials for Atwater Kent radios. Replaces original knobs graduated 0-100, with direct frequency markings 55-150 for the broadcast band. 3¼" overall diameter, ¼" shaft size with set screw. [5]

	P-K210R	$7.95
1⅜" diameter. Brown [2]	P-K982	5.95
1⅝" diameter. Brown [3]	P-K983	6.75
3⅛" diameter. Brown with white engraving [4]	P-K984	7.95



Reproduction Philco Molded Plastic Knobs

Rosette Knobs used on 1931-32 Philco Cathedral. With set screw to fit ¼" shaft

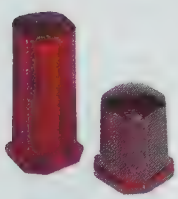
1¼" diameter tuning knob, Brown [1]	P-K175	$6.95
⅞" diameter, Brown [2]	P-K176	6.95
11/16" diameter skirt, 7/16" diameter face [3]	P-K177	6.95

Hex-shaped knobs. Used on 1933-34 Philcos. With set screw to fit ¼" shaft

1" diameter tuning knob, Black [4]	P-K178	6.95
13/16" diameter, Black [5]	P-K179	6.95

Mid 30's Knobs. Push-on for flatted shaft. No set screw

1⅛" diameter knob with pointer, Brown [6]	P-K181	5.75
1⅛" diameter inner knob for concentric tuning [7]	P-K185	6.50
1⅜" diameter outer knob for concentric tuning [8]	P-K186	6.50
1 1/16" diameter with pointer.5/16" long x ½" neck to extend into cabinet [9]	P-K209	6.50



Philco Pushbuttons

Reproductions of the wine-colored pushbuttons used for station presets on 40's vintage Philcos. Buttons measure 7/16" x 7/16" across front surface and come in two lengths. Back of buttons are slotted to fit onto 3/16" switch actuator.

¾" long	P-K411	$2.95
1¼" long	P-K412	2.95

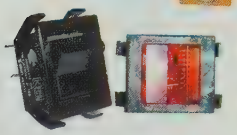
Zenith Bandswitches

Used in Zenith radios in the late 30's and early 40's. 1938 model used lever with set screw in 3:00 position, 1939 model and 1940 models used lever with set screw in 12:00 position.

Set screw in 3:00 position	P-K220	$13.50
Set screw in 12:00 position	P-K221	13.50
Internal metal bandswitch link. 3:00 set screw. Internal part for large Zenith radios made in 1940-1942 that the bandswitch wheel attaches to. Originally a potmetal part.	P-K223	11.95

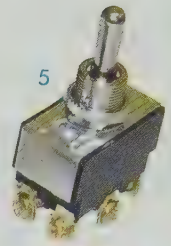
Rocker Switches

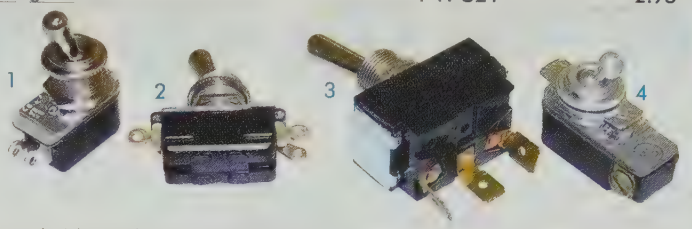
Black standby rocker switch for Marshall™ JCM series and others. 15/16" x 1 1/16" x 1" deep	P-H490	$3.95
Lighted power switch. Used for Marshall™ JCM series and others. 15/16" x 1 1/16" x 1" deep	P-H491	5.95



Toggle Switches

Carling SPST toggle power and standby switch. Good Fender® replacement [1]	P-H495	$4.95
Carling SPDT 2 position toggle. Great Fender® ground switch replacement [2]	P-H494	5.95
Carling SPDT 3 position center off toggle. Great Fender® ground switch replacement [3]	P-H496	4.95
Ball handle SPST. 6A-125V rated. 1/2" hole mount. Screw connections [4]	P-H35-170	3.50
Bat handle DPDT. On-on, 20A-125V rating. 1/2" hole mount. Screw connections [5]	P-H35-146	5.50
DPDT. On-off-on [5]	P-H35-148	5.50
C&K, bat handle DPDT. PC mount. 5A, 120VDC, right angle leads [6]	P-H-U21	2.95





Foot Switches

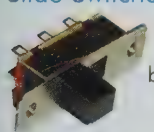
Carling SPST footswitch, used in Fender®, etc. reverb/tremolo/channel switching pedals	P-H493	$6.25
Carling DPDT footswitch, used in switching and effects units [2]	P-H497	9.95
DPDT footswitch, same switch as P-H497 but made in Taiwan [3]	P-H498	4.95
3PDT footswitch. Authentic Fulltone manufacture! [4]	P-H499	12.95
3PDT footswitch. For true bypass [5]	P-H501	10.95
DPDT momentary footswitch [6]	P-H503	4.95
Original Dunlop GCB-95 switch. Original Crybaby part for all Crybaby models [7]	P-ECB-69	8.95
Carling SPDT footswitch. Used in footswitch boxes & effects pedals [7]	P-H492	7.95

Rotary Switches

3A 125VAC. 1 pole, 12 position, solid 1/4" shaft. Make before break (shorting)	P-H390	$1.35
3A 125VAC. 1 pole, 12 position, solid 1/4" shaft. Break before make (non-shorting)	P-H391	1.40
3A 125VAC. 2 pole, 6 position, solid 1/4" shaft. Make before break (shorting)	P-H392	1.35
3A 125VAC. 2 pole, 6 position, solid 1/4" shaft. Break before make (non-shorting)	P-H393	1.40

Slide Switches

P-H35-242 $1.25

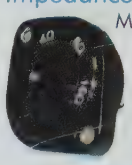


Standard size. Cadmium plated solder connections. 11A-125VAC, 5A-125VDC, DPDT. Good for Fender® bright switch.

Impedance Selector Switch

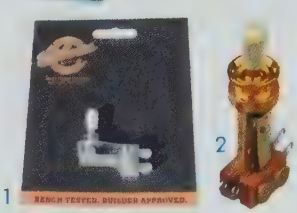
P-H1700 $16.95

Modern replacement for Marshall™, 4/8/16



Gibson Original Guitar Switches

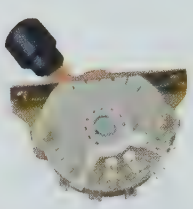
L-type with cream cap [1]	P-SW01	$13.95
Straight type with cream cap [2]	P-SW02	13.95



Fender Guitar Switches

Whether you need to replace a worn switch or just want to add a little tonal variety to your favorite instrument, Fender® offers high quality, American made switches with knobs and mounting hardware.

3 way pickup selector used on American vintage Strats & Teles	P-SW50	$7.50
5 way pickup selector used on most American made Stratocasters	P-SW51	7.50
5 way super switch	P-SW52	11.95
4 way Tele mod	P-SW53	14.95

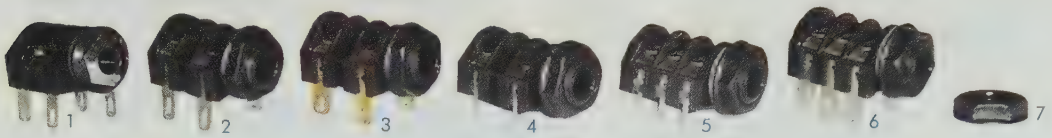


Jacks

Cliff Jacks

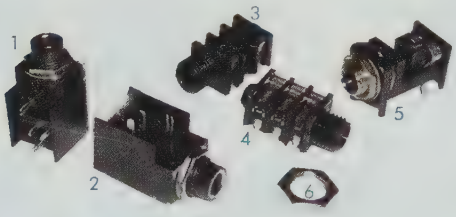
Highest Quality, made in England

Mono input jack. 4 solder terminals, shorting. Metal ferrule, vintage style. Used in British amps [1]	S-H501	$2.7
Mono input jack. 4 solder terminals, shorting. Used in modern Marshall™ amps with black plastic nut [2]	S-H502	2.2
Same as above (S-H502) but with Gold terminals [3]	S-H502G	2.9
Mono input jack. 4 PC board terminals, shorting. Used in modern Marshall™ amps, or as replacement part for Marshall™ JCM 900 cabinets. Used in Ampeg, Crate, Marshall™ & more [4]	S-H503	2.2
Stereo input jack. 6 PC board terminals, shorting. Used in modern Marshall™ amps. Used in many PA & Recording consoles, Marshall™ bass heads, & "rack" units [5]	S-H504	2.2
Same as S-H504 but with 6 solder lugs [6]	S-H505	2.4
Hex nut for S-H502, S-H503, S-H504 and S-H505 [7]	S-H5NT	.4



Plastic Jacks

Mono input. 4 solder terminals, shorting. Metal ferrule, vintage style. Similar to S-H501 [1]	S-H601	$1.75
Mono input. 4 PC mount terminals. Metal ferrule. Shorting [2]	S-H601A	1.75
Stereo input. 6 solder terminals. Metal ferrule. Shorting [3]	S-H601B	1.75
Stereo input. 6 PC mount terminals. Metal ferrule. Shorting [4]	S-H601C	1.75



Fender® 1/4" Jacks

PC mount jack. Mono 4 pin. c.1988-1999 [1]	S-H506	$3.50
PC mount jack. Stereo 9 pin. c. 1988-1999 [2]	S-H507	4.50
Rean stereo jack 1999 to present [3]	S-H508	2.25
Rean mono jack 1999 to present [4]	S-H509	2.25
PCB mono closed circuit [5]	S-H512	4.95
Hex nuts for Rean jacks. Package of 12 [6]	S-H510	2.25

Switchcraft Jacks

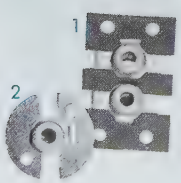
1/4" Female. Open circuit. Replacement for Fender® [1]	W-SC-11	$1.95
Shorting type. 1/4" female [2]	W-SC-12A	1.95
1/4" female. Stereo Double Open Circuit [3]	W-SC-12B	2.05
1/4" female Same as W-SC-12A but has longer leads [4]	W-SC-L12A	2.10
RCA panel mount female jack. Good Fender® replacement [5]	W-SC-3501FR	1.95
Stereo end pin jack. Threaded, 15/32" dia, 1/2" mounting hole for 1/4" plug [6]	W-SC-152B	6.95

1/4" Panel Mount Phone Jacks

3 conductor, stereo. Double open circuit. Generic, like Switchcraft 12B [1]	S-H33-099	$1.50
2 conductor, shorting type. Generic, like Switchcraft 12A [2]	S-H33-097	1.50

RCA Phono Jacks

Gold, black band, front mount [1]	S-H267B	$3.95
Gold, red band, front mount [2]	S-H267R	3.95
Gold, white band, front mount	S-H267W	3.95
Gold, black band, rear mount	S-H268B	3.95
Gold, red band, rear mount [4]	S-H268R	3.95
Gold, white band, rear mount	S-H268W	3.95



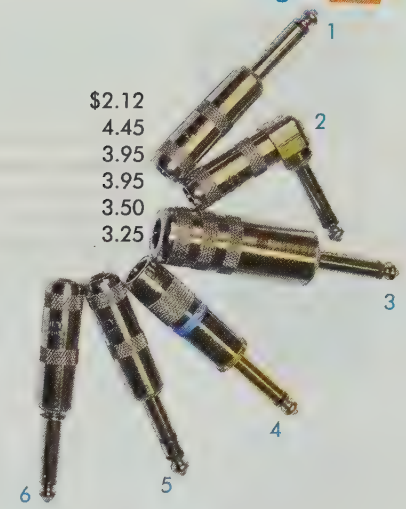
Phono Jack, Boards

Double, 1 1/2" x 1" package of 2 [1]	S-H310	$0.25
Single, round. 1" diameter. Replacement for Fender® Tweeds [2]	W-HHS-1203	2.50

1/4" Plugs

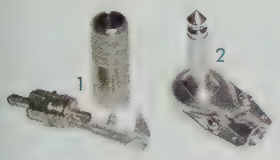
Made by G&H Industries. High quality, oxygen-free copper core phone plugs. Made in America.

Standard mono. Nickel plated [1]	P-H50	$2.12
Right angle mono. Nickel plated [2]	P-H60	4.45
Jumbo mono. Nickel plated [3]	P-H80	3.95
Standard mono gold plated plug and nickel housing [4]	P-H51	3.95
The "quiet plug." Nickel plated. Spring loaded ground sleeve [5]	P-H90	3.50
Standard stereo plug. Nickel plated [6]	P-H70	3.25



Switchcraft Plugs

RCA Plug. For Fender® [1]	W-SC-3502A	$2.25
1/4" Right angle plug. For Fender® [2]	W-SC-228	3.95



F cap & Plug for Fender®

1/4" straight plug, open back, mono. Used in conjunction with Fender® F-cap — P-H55 — $5.95

F-cap, black plastic. Similar to that used on old Fender® amps — P-H55F — 2.95

Banana Plugs

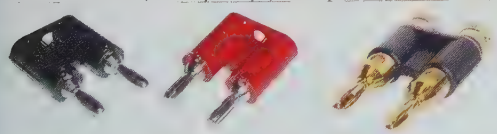
Internal stud for solder or solderless connection. Body is hex brass, tip is four leaved, phosphor bronze, gold plated spring. Gold screw type.

Red	S-H264R	$0.95
Black	S-H264B	.95

Dual Banana Plugs

Mates with Standard dual binding posts with 3/4" centers and can be stacked for multiple connections. Polarity is indicated by rib. Nickel or gold plated. Screw connection.

Red (Nickel plated)	S-H33-010	$1.95
Black (Nickel plated)	S-H33-011	1.95
Black and Red, heavy duty (Gold plated)	S-H269	2.95



RCA Phono Plugs

Male plugs. Ceramic body with gold plating. Sold Individually

Red	S-H331R	$1.95
Black	S-H331B	1.95

RCA Phono Plugs with Cable Holder S-H304 $0.25

Aluminum, package of 3

HH Smith Grab Bag W-HHS-GBAG $2.50

Grab bag of miscellaneous HH Smith parts. At least 25 pieces per bag.

Individual Binding Posts

Accepts standard banana plug, test and phone tip plugs, spade lugs, alligator clips and bare wire. PCB type. Gold plated.

Black	S-H266B	$2.75
Red	S-H266R	2.75

Early Style Binding Post S-H159 $2.95

An exact reproduction of an early Philmore binding post. Precision machined from brass, nickel plated. 1/4" x 5/8" high, with screw.

Binding Post with Thumb Screw W-HHS-110 $2.65

Nickel plated brass. Comes with screw and lockwasher

Dual Binding Posts S-H263 $3.95

Red and black posts, accepts either single or dual banana plugs. Mounts in two 1/2" holes on 3 1/4" centers, panel thickness up to 1/4". 15A rating, gold plated contacts.

Tip Jacks

Deluxe for standard .080" tip plug. Machined contact with turret terminal. Brass body, silver finish. 10A rating. For panels up to .437" thick.

Red	S-H260	$1.50
Black	S-H261	1.50

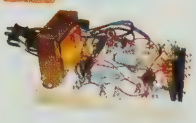
Phone Tip S-H33-156 $6.50

Standard .080" pin with .136" solder cup. Hollow tip, nickel plated. Package of 10

Generic Plug S-H257 $0.75

Generic 1/4" conductor. Chrome. *While Supplies Last!*

Visit our website for more binding posts and HH Smith parts!



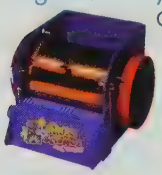
Power Supply Kit for Early Battery Radio

K-101A $54.50

Input: 120V, 60 Hz. **"A" Output:** Adjustable and regulated 1.5 to 7.5 volts, 1.5 Amps. **"B" Output:** 22, 45, 67, 90, and 135 volts regulated up to 50 mA. **"C" Output:** Adjustable, 0 to 22 volts. Regulated. Kit includes transformer, rectifiers, capacitors, resistors, transistors, regulator I.C. and all hardware and white pine board. Easy to follow instructions for assembly. You need only a screwdriver and soldering iron. 3.0 lbs.

Beginners Crystal Radio Kit

K-401 $10.50



Crystal radio kit is ideal for the beginning radio hobbyist. Comes complete with tuning coil that you get to wind, slider, germanium diode and earphone. 7 oz.

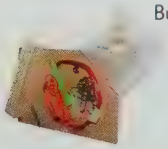
The Rocket Radio

K-439 $10.95

The original rocket radio was first offered in the 50's and now it's back. It's a fun way to learn about radios and how they work. Suggested for ages 8 and up. Includes: Rocket with tuning rod nose cone, crystal earphone, and antenna lead clip. 4 oz.

World War II Foxhole Radio Kit

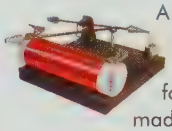
K-414 $13.50



Build an AM receiver using only a razor blade, pencil lead, coil and earphone! Contains all necessary parts, base and instruction book. 6 oz.

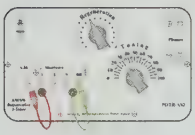
Crystal Radio Kit

K-417 $24.50



A simple, yet highly sensitive crystal radio kit made out of common items found in most homes. Comes with pre-wound coil and galena crystal. Great one night project for the beginner or the kids. Marvel at listening to a radio made from "nothing".

Requires crystal earphone (P-A480 order separately). 6 oz.



Two Tube Regenerative Radio Kit with RF Amp

K-425 $39.95

Broadcast bands to 8 MHz. Operates on a 1.5V "C" size and 45V (S-Z415) battery and two 1T4 tubes (order these items separately). RF amplifier stage boosts input signal and prevents radiation to feed-back into antenna, typical of regenerative receivers. Kit includes pre-drilled base and front panels, dial panel, variable capacitor, germanium diode, coil forms, coil wire, knobs, hook-up wire and hardware. 4½" x 7¾" x 4¾". 1 lb. **Optional:** Unassembled/Unfinished pine cabinet available (K-600)

Antenna Trap Kit

K-434 $23.50

Very useful for crystal, TRF and regenerative radio experimenting. This trap, when placed in series with your antenna can help to null powerful stations that "swamp" the weaker ones. Unit works more efficiently with Antenna Tuner Kit (K-435). Kit includes pre-drilled base and front panels, professional dial panel, variable capacitor, germanium diode, coil forms, coil wire, knobs, hook-up wire and hardware. 4½" x 4¾" x 3¾". Antenna/Ground wire not included. 1 lb. **Optional:** Unassembled/Unfinished pine cabinet available (K-600)

Antenna Tuner Kit

K-435 $32.50

Tuner covers 375 KHz through 30 MHz! Can be switched from "parallel" to "series" resonance for more complete coverage on all bands. Coil is tapped for inductance changes. Most efficiently used with AM Rejecter Trap (K-434). Kit includes pre-drilled base and front panels, professional dial panel, variable capacitor, germanium diode, coil forms, coil wire, knobs, hook-up wire and hardware. 4½" x 7¾" x 4¾". Antenna/Ground wire and headphones not included. 1 lb. **Optional:** Unassembled/Unfinished pine cabinet available (K-600)

One Tube Regenerative Receiver Kit

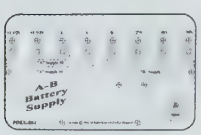
K-436 $32.50

With ("spider web" coils) Broadcast band through 8MHz (approx.) Kit includes pre-drilled base and front panels, professional dial panel, variable capacitor, germanium diode, coil forms, coil wire, knobs, hook-up wire and hardware. 4½" x 7¾" x 4¾". Antenna/Ground wire, headphones and 1T4 tube not included. Operates on a 1.5V "C" size and 45V (S-Z415) battery not included. 1 lb **Optional:** Unassembled/Unfinished pine cabinet available (K-600)

Two Tube AF Amplifier Kit

K-437 $24.50

Greatly boosts the audio output of small receivers. Used with Crystal, TRF and Regenerative Receivers and high impedance earphones. Power requirements: 45-90 V/DC, Plate and 1½ V/DC Filament power. May use: A/B Battery Supply Kit (K-438 recommended), or K101A Kit. Kit includes pre-drilled base and front panels, professional dial panel, Volume Potentiometer, Tube Sockets, knobs, hook-up wire and hardware. 4½" x 7¾" x 4¾". Headphones and two 1S4 tubes not included. 1 lb. **Optional:** Unassembled/Unfinished pine cabinet available (K-600)



A/B Battery Supply Kit

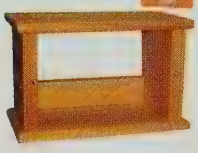
K-438 $23.50

Provides A/B battery power for small, tube-type regenerative radios and amplifiers using tubes with 1½ V/DC filaments. This kit uses ten 9V transistor batteries and two "C" cells. Kit includes pre-drilled base and front panels, professional dial panel, battery holders, hook-up wire and hardware. Batteries not included 4½" x 7¾" x 4¾". 1.0 lb. **Optional:** Unassembled/Unfinished pine cabinet available (K-600)

Unfinished/Unassembled Pine Cabinet

K-600 $22.50

New and very versatile.This handsome cabinet is made of pine and can be assembled and finished very easily. Adds a remarkable, professional look to your projects. Comes with all materials and hardware, including quick and easy instructions. For panels 4¾" x 7¾" x ⅛" thick, approx. 5¾" deep. 1.5 lbs. Use with kits: K-425, 434, 435, 436, 437 and 438.



Wireless Transmitter Kit

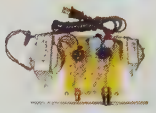
K-488 $39.95

Now your antique radio can play some of the same programs it did when it was new! With your cassette tape player, phonograph or high output microphone, this one-tube transmitter becomes a miniature AM broadcasting station, patterned after the 1939 Zenith model S-7000 Wireless Record Player. Assemble on a 4 x 6½" breadboard, all parts and instructions included. 2.0 lbs..

Monoblock Amplifier Kit

K-501 $89.50

Input Impedance: 100K ohms, Output Impedance: 8 ohms, Power Output: 8 watts, Frequency Response: 20 to 20,000 Hz Minimum Input for Full Output: 0.3V, Total Harmonic Distortion @ 1 W: <1%. Uses 11MS8 tubes included in the kit. Also includes board for mounting PC board and transformers. 5 lbs. 1 oz.



Stereo Integrated Amplifier Kit

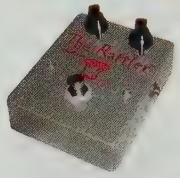
K-502 $139.50

Input Impedance: 100K ohms, Output Impedance: 8 ohms, Power Output: 8 watts per channel, Frequency Response: 20 to 20,000 Hz, Minimum Input for Full Output: 0.3V, Total Harmonic Distortion @ 1 W: <1%. Uses 11BM8 tubes included in the kit. Also includes board for mounting PC board and transformers. 6 lbs. 10 oz.

The Rattler!

K-900 $49.95

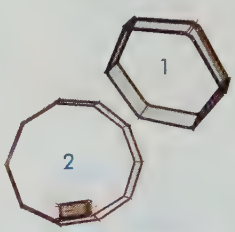
Build your own distortion effects pedal! Easy to build, point to point wiring. Tone similar to the Vintage 60's and 70's effects pedals. Pre-drilled diecast aluminum boxes. Comes with variable components to customize your tone! Uses 9-volt battery which is not included. 12 oz.



Loop Antenna Form Kits

These kits are made for vintage radios requiring long antennas to operate. Includes beams and wire spacing combs that snap together for easy to wind antenna. Also includes 28 gauge magnet wire.

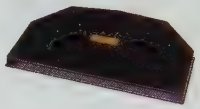
6 sided. 330 μH. Effective aperture 153 in². Perimeter: 46". 24 turns max, 100' [1]	K-ANT6	$8.75
8 sided. 490 μH. Effective aperture 280 in². Perimeter: 61". 24 turns max, 130' [1]	K-ANT8	9.75
10 sided with wiperless 3-plate, 10-180pF capacitor. 650 μH. Effective aperture 447 in². Perimeter: 76". 24 turns max, 160' [2]	K-ANT10	26.95



Platform Antenna

S-FM-1A $44.95

This antenna is made for vintage radios requiring long antennas to operate. Ultra flat log inline YAGI antenna for all AM radios and High-end FM stereo applications. 6' coax cable and 75 ohm adaptor included. 17" x 9.5" x 1" height. Supports most tombstone and cathedral style radios.



Crystal Detector

K-412 $18.50

Beautiful wood based detector comes complete with cat's whisker, ball and rod assembly, holder for galena crystal and old style binding posts. Base is 1¾" x 3¼" 2 oz. **Galena crystal not included, see below.**

Galena Crystals

P-Q111 $2.50

Mounted Galena Crystals, like those used in early crystal detectors. Ideal for K-412 and other detectors.

Cats Whiskers

P-H415 $2.70

Similar to the Philmore cat's whiskers and others. Made of phosphor bronze. Pkg/3.

Mascot Tuning Coil

P-M166 $39.95

A working reproduction of the loose coupler featured in the William B. Duck Catalog of 1921. Beautifully finished mahogany ends and brass rods. Originally advertised as designed to greatly increase the range of any of the receiving sets for experimental use. With 60 foot aerial it will respond to wave lengths up to about 800 meters. 3½" square by 7⅛" long. Assembled. 1 lb.

Plug-in Coil Forms

P-C211 $5.50

Wind your own coils with these brown plastic plug-in coil forms. 2⁵⁄₁₆" x 1¼" dia. Standard 5-pin base.

NOS Ceramic Coil Form

P-C210 $3.95

1⅝" tall with adjustable slug.

Crystal Cover

P-D125 $11.95

Glass crystal cover for Philmore and other crystal sets. 1" overall diameter by 1⁹⁄₁₆" high.

Spider Web Coil Form

P-H500 $2.95

Same as used in K-406. 3¾" dia. Made of press board. Has leg for mounting to radio base. Use with magnet wire on p. 81.

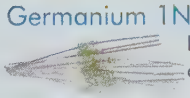
Crystal Earphone

P-A480 $3.25

High impedance crystal earphone is very sensitive and works great with crystal radios. Has 3 ft. cord and miniature (3.5mm) plug.

Germanium 1N34A Diode

P-Q972 $1.50



Point contact germanium diode, ideal for crystal radio detectors.

Atwater Kent, Stewart-Warner [1]

S-M906 $3.95

The AK name comes in both solid gold and solid black colors, and the Stewart-Warner name is black with gold outline. Also contains the words 'OFF-ON,' 'VOLUME,' 'TONE,' 'BAND,' 'AM,' 'FM,' 'BC,' 'POL,' and 'AV.'

Emerson Treble-Clef Logo [2]

S-M905 $4.50

Gold with black outline in two common sizes. Also contains the words 'OFF-ON,' 'VOLUME,' 'TONE,' 'BAND,' 'AM,' 'FM,' 'BC,' 'SW,' 'POL' and 'AV.'

Philco [3]

S-M907 $5.95

Features the Philco name in 3 sizes, and 20 different knob function labels as found on Philco receivers of the 1930's and 1940's. All in gold with black outline. "OFF-ON," "BASS," "B'DC'ST," " POL," " S.W.," TONE," "BAND SELECTOR," "TRANSITONE," "HIGH FIDELITY," "MAGNETIC TUNING," "VOLUME," "TREBLE," "SELECTIVITY," and "PHONO-RADIO."

General Electric, Fada & Garod [4]

S-M909 $4.95

The "General Electric" logo appears in 3 commonly used sizes, along with "Fada Radio," and "Garod." Gold with black outline.

Emerson, DeWald, Belmont, Sonora & Tom Thumb [5]

S-M910 $4.50

Gold with black outline. "Emerson" script logo (without treble clef sign) and other manufacturer's logos for popular plastic radios.

RCA, Stromberg-Carlson & Admiral [6]

S-M908 $5.75

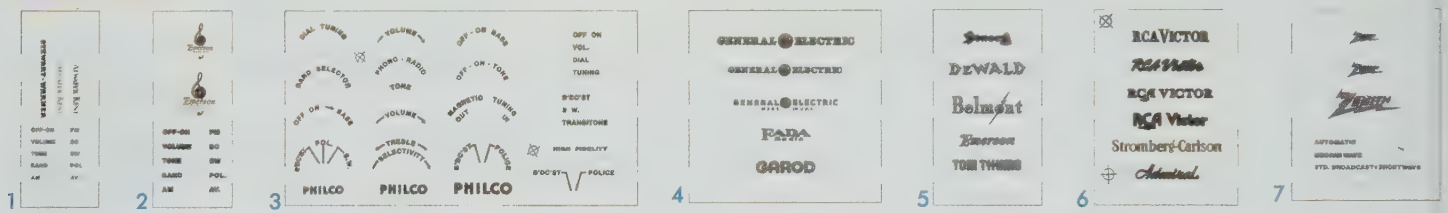
Gold with black outline. "RCA Victor" appears in three different logo styles, along with "Stromberg-Carlson" and "Admiral."

Zenith [7]

S-M904 $4.25

Gold with black outline in two common sizes. Also contains the words 'AUTOMATIC,' 'MEDIUM WAVE,' 'STD. BROADCAST,' and 'SHORTWAVE.'

Note: Not to scale



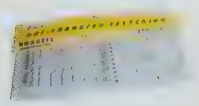
Decal Deal!

S-MDECAL-SD $28.75

We have another deal for you. Buy one of each type of decal and receive over 15% off if you purchased each one individually.

Instructions for Applying Water Release Decals

Cut out the portion of the decal sheet to be used and soak in warm water until the decal slides off the paper backing. Immediately apply wet decal to the radio cabinet and pat dry. Lacquer finish may be applied over the decal(s) if desired. Do not soak too long, and *watch carefully*!



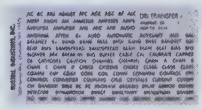
Dri-Transfer Lettering

Rub-on lettering simplifies panel labeling, dial marking etc. Available in either black or white.

Dial Marking Kit

Contains dial patterns, arcs, lines, dots, switch symbols, graduation lines, lines for rotary tap switches and calibrated meter dials. 3 sheets.

Black	S-M175	$4.95
White	S-M176	4.95



Audio, TV and Hi-Fi

Contains over 400 words from 'AC' to 'Zero' in alphabetical order as well as miscellaneous numbers and letters. 1/8" tall lettering. 4 sheets.

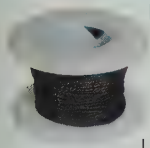
Black	S-M177	$4.95
White	S-M178	4.95

Amateur Radio and CB

Contains over 300 words from 'AC' to 'X-TAL' in alphabetical order as well as miscellaneous numbers, letters and frequency designations. 1/8" tall lettering. 4 sheets.

Black	S-M179	$4.95
White	S-M180	4.95

Dial Drive Cable



No-stretch black cord made of nylon braid over a fiberglass core. Sold in 25' lengths.

Medium/Heavy .040" dia.	S-M74-25	$4.25
Standard Thin .028" dia.	S-M75-25	3.95

Use with tension springs (listed below)

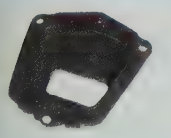
Tension Springs

S-H400 $1.00

Use for dial drive or turntable. Package of 10

Philco 70 Escutcheon Brown Reproduction

P-D199 $7.95



NOS Dial Belts

S-MDIAL-BELT $9.95

Limited Selection. Call with radio model number.

Zenith Dial Glass

P-D272 $8.95

A reproduction of the round convex glass that covered the tuning dial on middle and late '30's Zeniths. 0.5 lb, 8½" diameter. Needs 2'3" of P-D280, listed lower on this page. Note: This photograph was taken at an angle to the glass. It is, in reality, round and convex.

Dial Reproduction Material

S-M190 $8.95

Translucent tan color plastic sheet, can be cut with scissors. Ideal for making replacement Philco or other dials. 8" x 10" sheet, .016" thick.

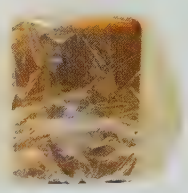
Station Call Letter Tabs

P-D130 $4.95

Reproduction paper station inserts like used on Philco and other late '30's and '40's vintage radios with push-button tuning. Over 300 stations provided with 3/16" high letters in translucent ivory color on black background. Trim to size to fit various models.

Plastic Radio Covers

Clear plastic covers to protect your radios from dust while being in storage. Note: Radio not included.



20" x 15", for portable Transoceanic	S-B904	$3.95
40" x 40", for tabletop radios	S-B905	5.95
48" x 60", for console radios	S-B906	7.95

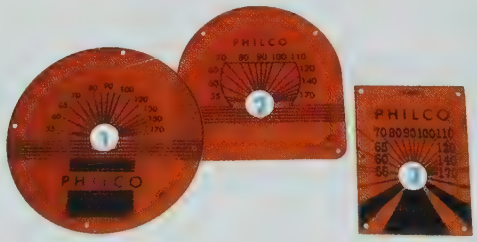
Dial Glass Rubber Extrusion

High quality neoprene rubber extrusion available in three sizes. Sold by the foot.

5/32" w x 3/16" h .090" internal gap	P-D280	$3.75
7/32" w x 3/16" h .080" internal gap	P-D281	4.95
1/8" w x 1/8" h .050" internal gap	P-D282	3.95
7/32" w x 1/8" h .100" internal gap	P-D283	3.50

Philco Radio Dials

Philco generally used these dials with the listed models; however, there are some exceptions so please check your equipment thoroughly. Light brown translucent plastic with black lettering.



Philco 33B [1]	P-D27-5210	$14.95
Philco 84B [2]	P-D27-5168	13.95
Philco 37-84 [3]	P-D27-5031	13.95

Leather Replacement Handle for Early Radios

Direct replacement for early RCA portables! Leather with steel reinforced handle, 6¼" spacing, brown.

Brackets not included	P-H259	$24.95

See page 61 for more handles

Do-It-Yourself Electroplating

Replate nickel, silver or brass radio and phonograph parts. Uses current from any 3 to 6 volt DC supply or batteries. Plating brush connects to positive voltage and part being plated connects to negative. Brush sold separately. 2 oz. jar.

Brass	S-F222	$7.95
Copper	S-F296	7.95
Nickel	S-F223	12.95
Silver	S-F224	24.95
Plating Brush (instructions included)	S-F225	6.25

Plastic Polish

Novus #1 - Cleans and glazes plastic surface to resist finger markings, dust buildup and is anti-static.

2 ounces	S-C216	$1.95
8 ounces	S-C226	3.95

Novus #2 - Removes fine scratches, abrasions and haziness from plastic surfaces. Great for plastic radio dial windows. For best results, follow with Novus #1 polish.

2 ounces	S-C217	2.50
8 ounces	S-C227	4.95

Novus #3 - Removes scratches from acrylic surfaces. More abrasive than #2. Effective for deeper scratches. Treatment must be followed by #2 to buff and polish the surface.

2 ounces	S-C215	2.95
8 ounces	S-C225	5.95

Buy each type of the same size bottles and save!

2 oz bottles	S-CPOLISH-2OZ	6.95
8 oz bottles	S-CPOLISH-SD	13.50

Novus Polish Mates

S-CMATE $2.25

Novus Plastic Polish Mates offer cloth-like softness in a disposable wiper. These wipers are highly absorbent, abrasion-resistant, low-lint and extra durable. Package of 6 Mates.

Magnolia Glayzit

S-C250 $12.95

For restoration of Bakelite. A siliconized polish that restores Bakelite with its blend of premium wax and oil.

Tibet Almond Stick

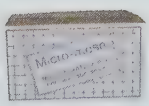
S-C243 $3.95

Wipes out scratches in wood radio cabinets quick-as-a-wink. Simply rub end of stick over scratches in any type of wood and watch them disappear like magic!

Lacquer Stick Wipe On Paintstick

Quick economical way to color engraved lines or stampings on metal, glass, plastics, etc. Works great for filling in markings on TRF radio dial knobs and faceplates.

White	S-F229	$2.50
Gold	S-F230	3.95
Red	S-F437	2.50
Black	S-F438	2.50



"Micro-Mesh" Plastic Restoration System

S-C228 $19.95

The most efficient system available for removing scratches and haziness from plastic radio cabinets and clear dial windows. Each kit contains 5 pieces of 3" x 6" Micro-Mesh cushioned abrasive cloth ranging from coarse to ultra-fine, foam sanding block, 3 oz bottle of Micro-Gloss liquid abrasive and a soft buffing cloth. Net weight 8 oz.

Plas-T-Pair

S-C244 $9.95

A complete repair kit for plastic knobs, radio cabinets and other plastic parts. It can be poured into a crack or molded to fill gouges, holes, or make parts. After setting it can be sanded, drilled or polished.

Mohawk Ultra-Classic Toner

Ultra-Classic Toners utilize a non-fading, non-bleeding dye to provide excellent clarity. Wood shades can be varied without importing the "muddy" effect sometimes associated with pigment type toners. Get dye-based transparency with the highest rating of light-fastness available for dyes. Excellent flow out, mar and alcohol resistant, no overspray. Net weight 13 oz.

Perfect Brown: A nice warm shade that is a great match for 1930's and 1940's sets	S-F306*	$7.25
Walnut Brown: Use as a replacement for burnt umber. Great for late 1920's to early 1930's sets	S-F309*	7.25

Mohawk Ultra-Flo Clears

Formulated with special resins and solvents to provide a finish film free of orange peel. Little or no overspray when used over spot repairs or over an existing lacquer finish. Saves time, as the finish film will not require sanding or rubbing. Net weight 13 oz.

Gloss	S-F301*	$7.25
Satin	S-F302*	7.25

Mohawk Tone Finish Toner

S-F305* $7.25

Also known as shading of toning lacquer. This is an opaque, pigmented lacquer finish that will build a darker and darker color with subsequent coats. Best for duplicating the shading effect on the edges of cabinets. Should be top coated with clear lacquer after the desired color is achieved. Net weight 13 oz. Van Dyke Brown.

Mohawk Lacquer Sanding Sealer

S-F304* $7.25

Helps fill grain pores on open grain woods and prevent blotchy absorption of penetrating stains on birch or maple cabinets or trim pieces. Seals end grain. Net wt. 13 oz aerosol can.

Mohawk No Blush

S-F310* $7.25

Humidity or cold weather can cause a finish to turn white (blush). No Blush™ Plus retarder re-flows the finish and allows the trapped moisture to escape. Net wt. 13 oz aerosol can.

For 20 tips on using Mohawk Lacquer products, please see the Tech Corner on our website.

Clear Spray Shellac

S-F308* $8.50

Provides a clear coating for many different surfaces. Shellac has an unusual adhesion to hard-to-grip surfaces. Hold out is exceptional on wood, plywood and plaster. Recommended for spot sealing knot holes, sap streaks and refilled areas before refinishing. Net weight 12 oz.

Wrinkle Finish

Great for refinishing vintage metal radio cabinets, faceplates and speakers. 12 oz. spray can.*

Jet Black	S-F227*	$8.95
Grey	S-F701*	8.95

Hints for Wrinkle Finish paint: Surface must be clean and dry. Clean means no oil, grease or fingerprints. Be sure that temperature of the paint can and the surface to be painted is between 70 and 90 degrees. Spray with even strokes at a distance of 8" to 12". Apply a fairly heavy coat. Spray a 2nd coat approximately 3 minutes after the 1st, also fairly heavy. The wrinkling will appear gradually, requiring about 12 hours at room temp to completely develop. **Tip:** experience seems to indicate that a better finish develops when sprayed onto bare metal.

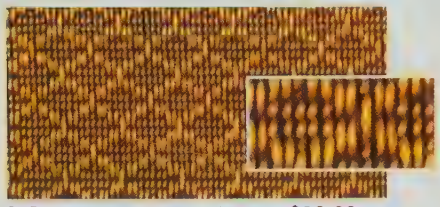
Paint compatible for use *with* S-F701 to make brown wrinkle finish:

Dark Brown	S-F226P*	$7.95

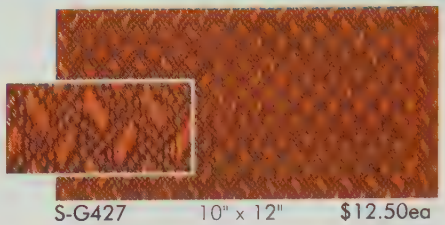
*NOTE: Federal regulations prohibit us from shipping these products by air (noted with * after part number).

Grill Cloth

Custom made fabric to duplicate early radio speaker cloth. Colors may vary somewhat due to different lots and fabrics used. Sold in 10" x 12" pieces or by the foot in increments of 6" after the first 12". If you would like a small sample to evaluate before making your purchase, they are available: first two are free, $0.75 each after that. Due to photographic and printing limitations, colors of the fabrics may not be [illegible]

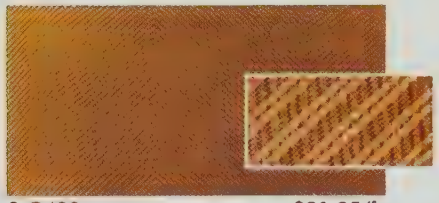


S-G115 10" x 12" $12.00ea
S-G115F 30" width 19.95/ft



S-G427 10" x 12" $12.50ea
S-G427F 30" width 20.95/ft

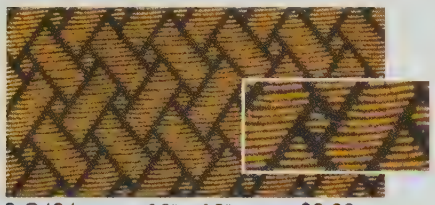
S-G429 10" x 12" $7.50ea
S-G429F 24" width 14.00/ft
Philco Model 60 for years 1934, 1935 and early 1936. (see S-G440 for late 1936+)



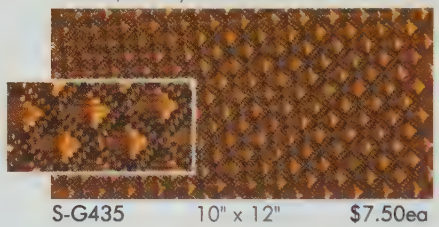
S-G430 $21.95/ft
31" appx. width. Sold only by the foot due to the pattern. Has two chevron widths appx. 12" and 19" wide

S-G431 10" x 12" $8.00ea
S-G431F 24" width 15.00/ft
Philco 70, 90, 89, 10; Zenith 8-S-463, 9-S-367; Grunow, Crosley and others from late 1930's

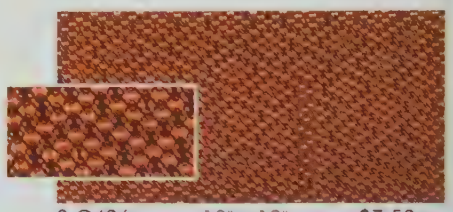
S-G432 10" x 12" $8.00ea
S-G432F 24" width 15.00/ft
For Emerson Models



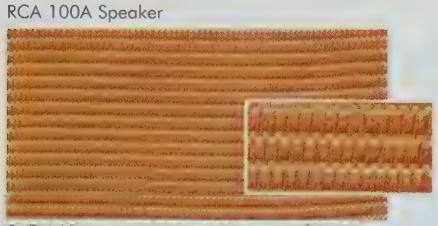
S-G434 10" x 12" $8.00ea
S-G434F 24" width 15.00/ft
RCA 100A Speaker



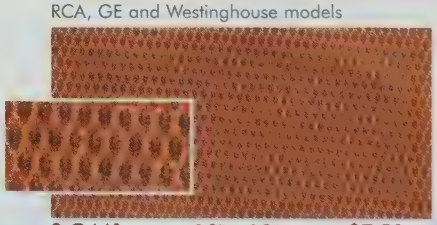
S-G435 10" x 12" $7.50ea
S-G435F 24" width 14.00/ft
RCA, GE and Westinghouse models



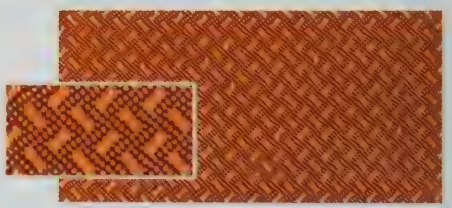
S-G436 10" x 12" $7.50ea
S-G436F 24" width 14.00/ft



S-G440 10" x 12" $8.00ea
S-G440F 24" width 15.50/ft
Philco Model 60 late 1936 and up

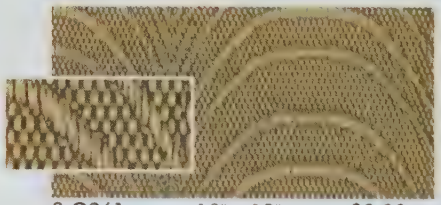


S-G441 10" x 12" $7.50ea
S-G441F 24" width 14.00/ft
Philco 84



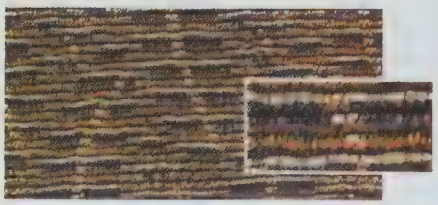
S-G959 10" x 12" $7.50ea
S-G959F 24" width 14.00/ft
Zenith consoles from the late 1930's

S-G960 10" x 12" $8.00ea
S-G960F 24" width 15.00/ft

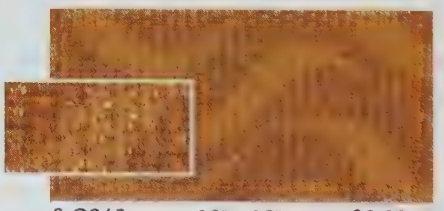


S-G961 10" x 12" $8.00ea
S-G961F 24" width 15.00/ft
Smaller Zenith consoles from the late 1930's

S-G963 10" x 12" $7.50ea
S-G963F 24" width 14.00/ft
Zenith, Fada, Silvertone from the 1930's



S-G964 10" x 12" $8.00ea
S-G964F 24" width 15.00/ft
Deco looking consoles from 1937 Zenith leaf design



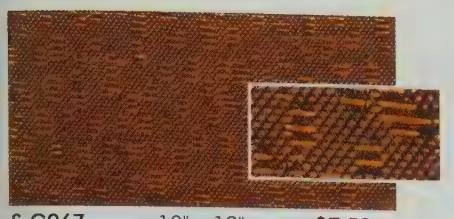
S-G965 10" x 12" $9.00ea
S-G965F 24" width 16.00/ft
Zenith swirl, Shutterdale and Walton, Tombstone Sets. Reversible

S-G966 10" x 12" $8.50ea
S-G966F 24" width 15.50/ft
Philco Diamond for 1939 and 1940 models

Speaker Cloth

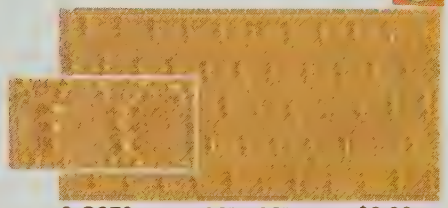
S-GSR1 $9.75 (saves $4.50)

Package of one sample of each radio grill cloth.



S-G967 10" x 12" $7.50ea
S-G967F [3] 24" width 14.00/ft
Zenith consoles from the 1940's

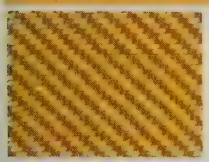
S-G969 10" x 12" $6.00ea
S-G969F 24" width 9.95/ft



S-G970 10" x 12" $8.00ea
S-G970F 24" width 15.00/ft

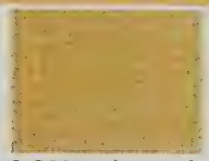
Tolex/Cabinet Covering

Replacement cabinet covering for Fender and other popular guitar amps. Tolex is 54" wide, Tweed is 64" wide. Sold per linear foot. See page 83 for spray adhesive and glue. Buy per yard and save 20%!



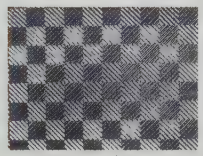
S-G305 $11.00/ft 26.40/yd
Tweed- Fender®

S-G306 $9.00/ft
Save 30% 18.96/yd
Black Tolex

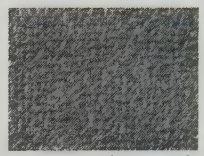


S-G307 $12.95/ft 31.08/yd
Cream Tolex- Fender®

S-G308 $12.95/ft 31.08/yd
Brown Tolex- Fender®



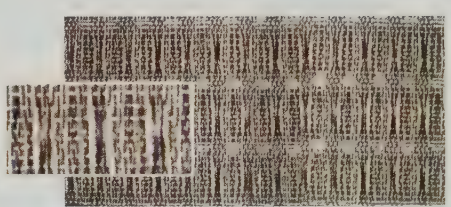
S-G309 $12.50/ft 30.00/yd
Diamond Blue- Ampeg



S-G310 $12.50/ft 30.00/yd
Nubby Tweed- Ampeg

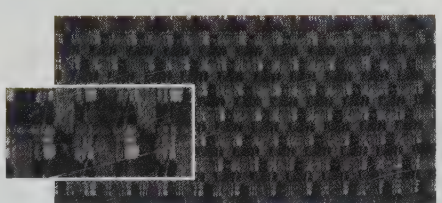
Grill Cloth

Replacement grill cloth as found on Fender® and other vintage guitar amps. Cloth is 34" high. Order enough to cover the width of your cabinet, plus a bit for frayed edges. Sold per linear foot. Note: The exact coloring and patterns of the grill cloth are very hard to reproduce. If you would like a small sample to evaluate before making your purchase, they are available: first two are free, $0.75 each after that. You may order a packet of grill cloth and cabinet covering samples for $6.00 (this saves $4.50). The part number is S-GSG-1. Buy per yard and save 20%! See pages 63-64 for Marhsall™ & Vox™ tolex and grill cloth.



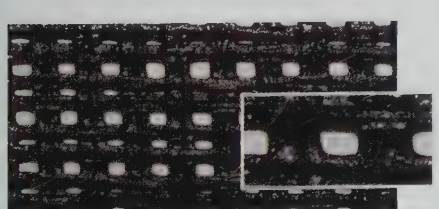
S-G293 Black/Silver, Ampeg $11.95/ft 28.68/yd

S-G294 Blue SVT- Ampeg $10.95/ft 26.28/yd

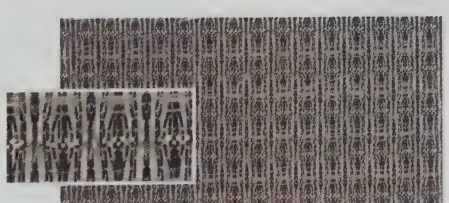


S-G296 Black Basket $9.00/ft 21.60/yd

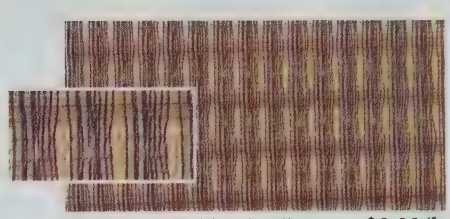
S-G297 Brown Basket $9.00/ft 21.60/yd



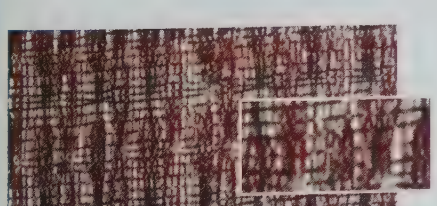
S-G299 Black Waffle $8.00/ft 19.20/yd



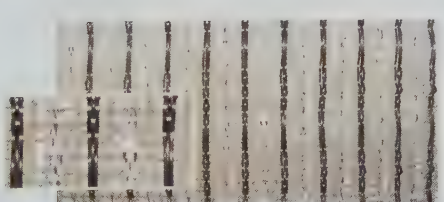
S-G300 Black/Gold $9.00/ft 21.60/yd



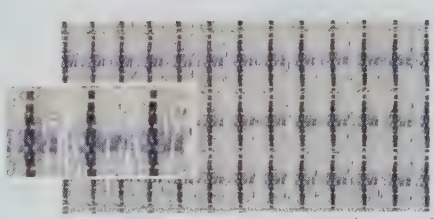
S-G301 Oxblood/Yellow $8.00/ft 19.20/yd



S-G302 Oxblood $8.00/ft 19.20/yd



S-G303 Black/Silver/Gray $9.25/ft 22.20/yd



S-G304 Blue/Black/Silver/White $10.95/ft 26.19/yd

Bulbs, Jewels, Fuses & Holders

Dial Lamps / Bulbs

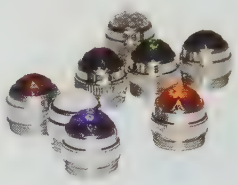
Long life general replacement lamps for dials, indicators, etc. Packages of 10 except where noted.

Type	Volts	Amps	Base	Bulb	Part	Price
40	6.3	.15	screw	T-3¼	P-40	$2.95
41	2.5	.50	screw	T-3¼	P-41	2.95
42	3.2	.35	screw	T-3¼	P-42	2.95
43	2.5	.50	bayonet	T-3¼	P-43	2.95
44	6.3	.25	bayonet	T-3¼	P-44	2.95
45	2.5	.35	bayonet	T-3¼	P-45	2.95
46	6.3	.25	screw	T-3¼	P-46	2.95
47	6.3	.15	bayonet	T-3¼	P-47	2.95
48	2.0	.06	screw	T-3¼	P-48	2.95
49	2.0	.06	bayonet	G-3¼	P-49	2.95
50	7.5	.22	screw	G-3¼	P-50	2.95
51	7.5	.22	bayonet	G-3¼	P-51	2.95
53	14.4	.12	bayonet	G-3¼	P-53	2.95
55	7.0	.41	bayonet	G-3¼	P-55	2.95
57	14.0	.24	bayonet	G-3¼	P-57	2.95
81	6.5	1.02	bayonet	G-6	P-81	each 1.25
NE2	120	.0007	wire	T-2	P-NE2	each 1.95
NE45	105/125	.002	screw	T-4¼	P-NE45	each 2.95
NE51	90/110	.0003	bayonet	T-3¼	P-NE51	each 1.95

Morley Replacement Bulb

P-LTX387 **$1.95**

Replacement for Morley effects pedals



Jewels

Jeweled dome - red	P-L115	$1.95
Jeweled dome - green	P-L116	1.95
Jeweled dome - amber	P-L117	1.95
Jeweled dome - blue	P-L120	1.95
Jeweled dome - purple	P-L121	2.25
Jeweled dome - violet	P-L121V	1.95
Jeweled dome - clear	P-L122	2.25
Jeweled dome - white	P-L123	2.25

Lamp Sockets / Holders

Pilot Lamp Holder. Replacement for Fender® (Does not include jewel) [1]	P-L124	$2.25
Lamp holder [2]	P-L110	2.95
Miniature bayonet lamp socket for #44 & #47 lamps etc. [3]	P-L103	.50
Miniature bayonet lamp socket for #44 & #47 lamps etc. [4]	P-L104	.75

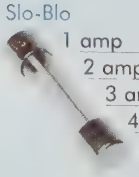
Fuses

¼" and 1¼" sizes. Protect your expensive investment or hobby with the right fuse. Fits fuse block and fuse holder below. Package of 5 fuses.

Fast-Blo

¼ amp	F-ZF005	$1.95
1 amp	F-ZF010	1.95
1½ amps	F-ZF015	1.95
2½ amps	F-ZF020	1.95
3 amps	F-ZF025	1.95
4 amps	F-ZF035	1.95
5 amps	F-ZF040	1.95

Slo-Blo



1 amp	F-ZS010	$2.95
2 amps	F-ZS020	2.95
3 amps	F-ZS025	2.95
4 amps	F-ZS035	2.95
5 amps	F-ZS040	2.95

Fuse Holders

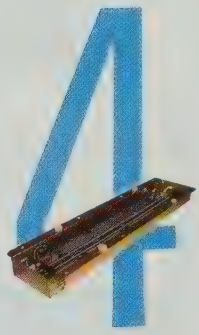
In-line fuse holder [1]	S-H254	$0.85
Marshall™ replacement [2]	S-H200	2.95
Fender® replacement. ½" dia. chassis hole [3]	S-H201	1.75
Fuse Block [4]	S-H259	1.95

accutronics

World famous Accutronics brand reverb tanks in 3 of the most popular styles with 14 models to choose from. Get the warm, true sound that only spring reverberation can provide. Used in Fender®, Marshall™, Ampeg, Peavey, Music Man, SLM and other amps

Type 4 Long, 2 Spring

The industry standard for years, the Type 4 is still manufactured using the original Hammond design. Four counter wound and coupled springs deliver superior mechanical performance and the classic sound that helped make the Fender Twin Reverb amps famous. 16¾" long x 4⅜" wide.



Input/Output ohms	Delay	Used in:	Part	Price
8/2,250	long	Fender®, Marshall™, Ampeg	P-R4AB3C1B	$21.95
150/2,250	medium	Music Man	P-R4BB2A1B	21.95
150/2,250	long	SLM	P-R4BB3C1B	21.95
600/2,250	medium	Peavey Solid State	P-R4EB2C1B	21.95
1,475/2,250	long	Music Man	P-R4FB3A1B	21.95
1,475/2,250	long	Ampeg	P-R4FB3D1B	21.95

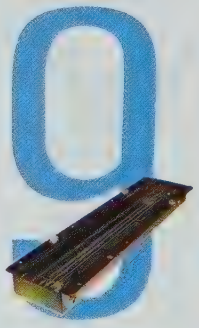
Type 8 Short, 3 Spring

Designed for applications in which overall sound quality is important and a compact package is required. Small in size, this three spring reverb approaches the rich textural quality of larger reverb units. 9¼" long x 3⅜" wide.

Input/Output ohms	Delay	Used in:	Part	Price
10/2,575	medium	Mesa Boogie	P-R8AB2A1B	$20.95
190/2,575	medium	SLM	P-R8BB2A1B	20.95
190/2,575	medium	Rivera	P-R8BB3D1B	20.95
310/2,575	medium	Marshall™	P-R8DB2C1D	20.95
800/2,575	medium	Fender®, Marshall™, Peavey	P-R8EB2C1B	20.95

Type 9 Long, 3 Spring

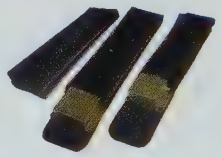
Six springs, counter wound, coupled and placed in parallel, combine to create the fullest, richest reverb effect throughout the full range of musical sound. Ideally suited for keyboard, sound reinforcement and pedal steel applications. 16¾" long x 4⅜" wide.



Input/Output ohms	Delay	Used in:	Part	Price
10/2,575	medium	Mesa Boogie, Fender®	P-R9AB2A1B	$23.95
10/2,575	medium	Fender®, Mesa Boogie	P-R9AB2C1B	23.95
10/2,575	long	Fender®	P-R9AB3C1B	23.95
1,928/2,575	medium	Fender®, Peavey, Music Man	P-R9FB2A1C	23.95
800/2,575	medium	Peavey	P-R9EB2C1B	23.95

Reverb Tank Bags

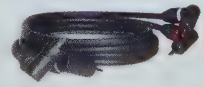
Handmade Single-ply black Tolex reverb tank bags. Replacement for Fender® and other amps.



Fits 17" tanks	P-RBAG-17	$9.95
Insert bag for greater isolation. Liner for 17" tanks to make a 2-ply bag	P-RBAG-17LNR	4.95
Fits 9" tanks	P-RBAG-9	7.95

Right Angle RCA Cables

For reverb tanks and other electronic devices.



3 foot cable	S-H273	$1.95
6 foot cable	S-H276	2.50

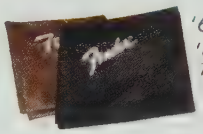
Foot Switch Boxes

Marshall™ style one button with 1/4" plug [1]	P-H470	$14.95
Marshall™ style two button with 1/4" plug [2]	P-H471	19.95
Fender® one button, vintage style w/RCA plug [3]	P-H270	31.95
Fender® two button, vintage style w/RCA plugs [4]	P-H271	39.95
Replica of Fender® Brown. One button, vintage style with RCA plug [5]	P-H270-BRN	32.95
Two button Fender®, 1/4" plug. Vibroking (Fat Vibe) [6]	P-H290	44.95
One button Fender®, 1/4" plug. Blues Jr. (Fat) [7]	P-H291	34.95
Two button Fender®, 1/4" plug. Hot Rod Series (channel & drive) [8]	P-H292	33.95
Two button Fender®, 1/4" plug. (channel & chorus) [9]	P-H293	34.95

Fender® Front Panels

Super Reverb [1]	P-H700	$29.95
Deluxe Reverb [2]	P-H701	29.95
Twin Reverb [3]	P-H702	29.95

Fender® Amp Covers

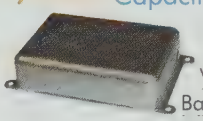


'65 Twin Reverb. Black	P-HCF-101	$14.95
'65 Deluxe Reverb. Black	P-HCF-102	14.95
'59 Bassman. Brown	P-HCF-103	14.95
Super Reverb. Black	P-HCF-104	14.95

Fender® Piggyback Items

Thumb Screws. Package of 2 [1]	S-H251	$13.95
Clip Bars. Package of 2 [2]	S-H252	24.95
Bushings. Package of 2 [3]	S-H253	17.95

Fender® Capacitor Covers



Twin Reverb	P-H710	$9.95
Vibroverb	P-H711	12.95
Bassman	P-H712	14.95

Optocouplers

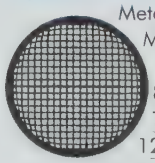
Vibrato LDR for Fender® Amps [1]	R-VOP1020	$9.95
VacTec. For channel switching [2]	R-VTL5C1	7.95
VacTec dual element [3]	R-VTL5C32	8.95

Guitar Amp Castors

Heavy duty swivel castor for use on Fender® and other amps. 2" diameter wheel supports 44 lbs. Comes with or without socket.

Castor & Socket	P-HW01S	$5.50
Save 10% on the set of 4 Casters and Sockets		19.80
Castor only	P-HW02	3.95
Socket only	P-HW03	1.95

Speaker Grills



Metal grills have flat black finish with rubber edge trim. Mounting brackets are sold separately.

8"	P-HSG008	$2.95
10"	P-HSG010	4.95
12"	P-HSG012	5.95
15"	P-HSG015	6.95
Mounting Bracket (sold individually)	P-HSGA1	.50

Cabinet Corners/Feet

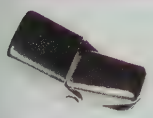
Original Fender® Sphinx Glides. Package of 4 [1]	P-H250	$4.95
Large tapered rubber foot with zinc washer. 1 3/4" dia. Screw not included. Package of 4 [2]	P-H9107	3.00
Industry standard 3-leg back side corner cover for vinyl or carpet covered cabinets. 18 gauge steel [3]	P-H1080N	1.75
2-leg corner. Use where total material thickness is 1/2" or more. Works on carpet or vinyl. 18 gauge steel [4]	P-H1082N	1.75
Corner wraps around inside edge of cabinet. Works on 3/4" of wood + material thickness. 18 gauge steel [5]	P-H1084N	1.75
Corner wraps around inside edge of cabinet. Works on 3/4" of wood + material thickness. For Fender® [6]	P-H1087N	1.75
Plastic, small stacking chevron corner. Ideal for carpet covered cabinets. Approx. 2 2/5" high, sides are 1" wide [7]	P-H266	1.25
Heavy duty plastic, large stacking chevron corner. Ideal for carpet covered cabinets. Approx. 3 1/4" high, sides are 2" wide [7]	P-H267	1.75
Stainless steel pan head Phillips self-tapping screws. #6 x 3/4" length. Good for use with #'s 3, 4 and 5. Package of 12	S-H101	1.50
Stainless steel flat head Phillips self-tapping screws. #6 x 3/4" length. Good for use with #'s 6 and 7. Package of 8	S-H102	1.50

Fender® Logos

Replacement for Fender® Amps, mounting screws included.

Flat Brown [1]	S-M911	$14.95
Flat Black [2]	S-M916	14.95
Tweed Brown [3]	S-M913	10.95
Tweed Black [4]	S-M917	11.95
Blackface with Tail [5]	S-M912	14.95
'70's Small Logo (CBS) [6]	S-M915	11.95
Tweed Bassman® [7]	S-M914	11.95

Ampeg Flip Top Latch/Suitcase Hook

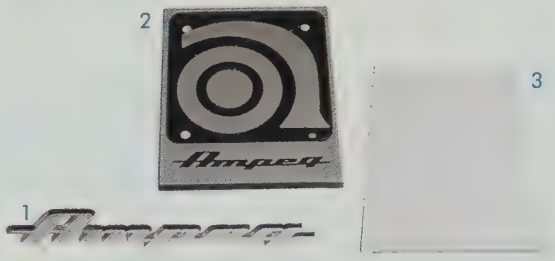


Original Ampeg	P-H300	$2.95

Ampeg Logos

Original Ampeg Amp logos

Script Logo [1]	S-M919	$9.95
Metal Logo [2]	S-M920	9.95
Plexi-logo [3]	S-M918	15.95



Fender® Tilt Back Legs

Available in three sizes. Contains two in each pack.

14" small	P-H265S	$26.95
16" medium	P-H265M	28.95
19" large	P-H265L	35.95

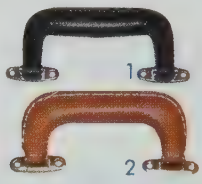
Fender® Chassis Straps

Available in three sizes. Contains two in each pack. Hardware included.

3" small	P-H264S	$7.95
4" medium	P-H264M	7.95
5" large	P-H264L	8.50
Additional screws, package of 12	P-H264-12	9.95

Guitar Case Handles

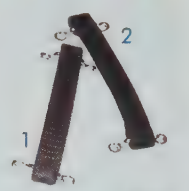
	Center to Center (")		
Black, used on Fender® and other cases [1]	4½"	P-H285	$4.95
Suntan, used on Fender® Tweed and others [2]	4½"	P-H286	8.95

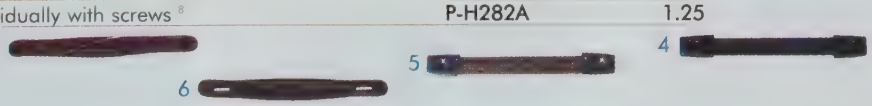


Amp Handles for Fender®

High quality handles for vintage Fender® amps. Will work on other amplifiers as well.

	Center to Center (")		
Original Fender® brown molded dogbone. Hardware included [1]	6"	P-H269BR	$14.95
Original Fender® black molded dogbone. Hardware included [2]	6"	P-H269BK	14.95
Black strap with silver caps. Replacement for Fender® [3]	8¼"	P-H261	5.95
Black strap with black caps. Replacement for Fender® [4]	8¾"	P-H261B	5.95
Brown strap with caps. Replacement for Fender® [5]	8¼"	P-H260	5.95
Brown leather-raised. Replacement for Fender® [6]	6½"	P-H262	6.95
Brown leather-flat. Replacement for Fender® [7]	6½"	P-H263	6.50
Chrome hardware for P-H262 & P-H263. Sold individually with screws [8]		P-H282A	1.25

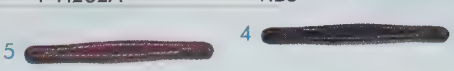


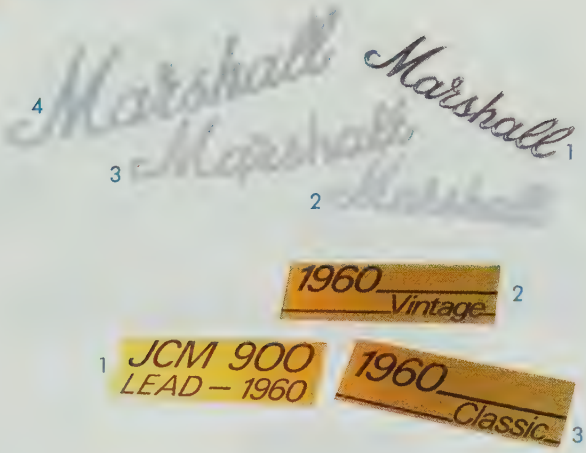


Replacement Handles for Ampeg and Other Amps

Replacement handles for vintage Ampeg amps. Will work on other amplifiers as well.

	Center to Center (")		
Large vintage leather handle. Blue [1]	7⅜"	P-H280	$12.95
Large vintage leather handle. Black [2]	7⅜"	P-H281	12.95
Large vintage leather handle. Brown [3]	7⅜"	P-H283	12.95
Strap Handle. Black [4]	6"	P-H282	9.95
Strap Handle. Brown [5]	6"	P-H284	9.95
Chrome hardware for P-H282 & P-H284 (above). Sold individually w/screws [6]		P-H282A	1.25





Marshall™ Logos

Replacement logo for Marshall™ Amps

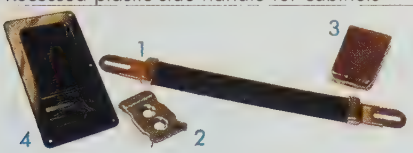
6" logo, gold Used on many late 60's amps [1]	S-M603	$29.95
6" logo, white [2]	S-M600	15.95
9" logo, white [3]	S-M601	17.95
11" logo, white [4]	S-M602	19.95

Marshall™ Badges/Lead Plates

JCM 900 Lead plate [1]	S-M650	$4.95
Vintage 1960 Lead plate [2]	S-M651	4.95
1960 Classic Lead plate, gold [3]	S-M652	6.75

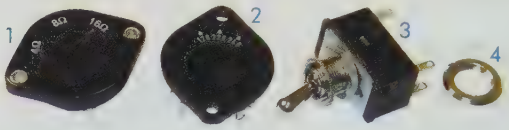
Marshall™ Handles & Handle Parts

Vintage strap. Large, black w/black caps	P-H294	$12.95
Vintage strap. Large, black. For use with P-H295-CMP & P-H295-GC, sold separately below [1]	P-H295	15.95
Old style inner clamp. Sold individually [2]	P-H295-CMP	3.95
Gold cap for vintage handle. Sold individually [3]	P-H295-GC	8.45
Recessed plastic side handle for cabinets [4]	P-H296	22.95



Marshall™ Switches

Rotary impedance selector. Modern, 4/8/16 [1]	P-H1700	$16.95
Voltage selector, Modern [2]	S-HM100	4.95
Chrome Plexi toggle switch [3]	S-HM300	15.95
Chrome nut for toggle switch (above) [4]	S-HM300N	4.95



Marshall™ Knobs

Sets of 8 except where noted.

Gold cap. Set Screw [1]	P-KM100	$14.95
Gold cap. Push-on	P-KM200	14.95
IBS Bass [2]	P-KM300	14.95
Jubilee, Push-on. Sold individually, while supplies last [3]	P-KM400	3.95

Marshall™ Pots

PC mount except where noted. Washers not included, nut sold separately.

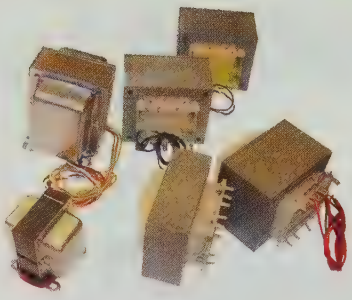
1M Audio. 24mm [1]	R-V1MA-M	$4.95
4.7K Linear. 24mm [1]	R-V4D7KL-M	4.95
22K Linear. 24mm [1]	R-V22KL-M	4.95
22K Linear. Bias/trim pot for JMP [2]	R-V22KL-BP-M	4.95
100K Linear. 24mm [1]	R-V100KL-M	4.95
220K Linear. 24mm [1]	R-V220KL-M	4.95
1M Audio, push-pull, solder lugs [3]	R-V1M-PP-M	11.95
Nut for above [4]	R-VNUT-M	.45

Marshall™ Footswitch Boxes

One button	P-H870	$34.95
Two button, channel & reverb [1]	P-H871	39.95
Two button, channel & chorus [2]	P-H872	39.95
Two button, reverb & chorus for AS50R & AS80R [3]	P-H873	39.95
One button with LED [4]	P-H874	34.95
Two button with LED, channel & reverb, for VS100R & VS100RH [5]	P-H875	44.95
Three button with LED, channel, channel & chorus [6]	P-H876	44.95
Three button with LED for 6100 & 610 [7]	P-H877	124.95
Four button with LED, for JMP-1 [8]	P-H878	169.95
Five button for TSL60, 100, 122, 601 & 602	P-H879	169.95

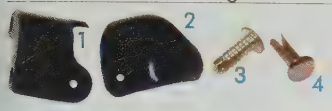
Marshall™ Transformers

JCM900 100W, power	P-TM9100P	$135.00
JCM900, 100W, output	P-TM9100O	109.95
JCM900, 50W, power	P-TM950P	109.95
JCM900, 50W, output	P-TM950O	79.95
JCM800, filter choke	P-TM800-C	35.95
JTM 45, power	P-TM45P	125.00
JTM 45, output	P-TM45O	109.95



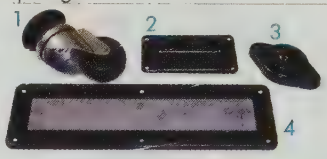
Marshall™ Corners

Rear corner set. Set of 4 [1]	P-H1090	$9.95
Front corner set. Set of 4 [2]	P-H1091	9.95
Corners for left and right positions. One each [2]	P-H1092	9.95
Gold rivets for fastening corners. Bag of 20 [3]	S-HMR-20G	7.00
Gold rivets for fastening corners. Box of 100 [3]	S-HMR-100G	19.95
Silver rivets for fastening corners. Bag of 20 [4]	S-HMR-20S	7.00
Silver rivets for fastening corners. Box of 100 [4]	S-HMR-100S	19.95



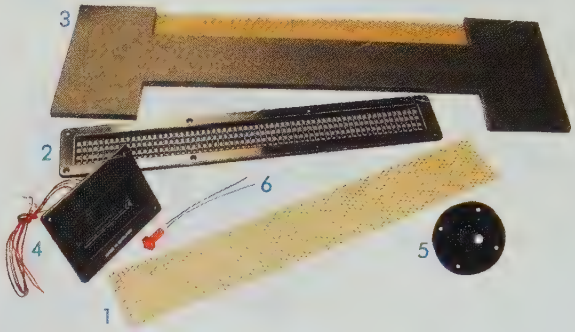
Marshall™ Feet & Casters

Caster (1.8") and socket. Sold individually [1]	P-HW05	$19.95
Caster cup, package of 4 [2]	P-HW04	14.95
Anti-skid tray [4]	P-HW06	11.95
Sprung feet. Set of 2 [3]	P-H252	14.95



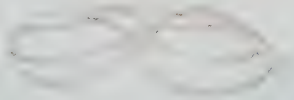
Marshall™ Parts

Top metal vent [1]	P-H210	$29.95
Large plastic vent [2]	P-H211	6.95
Back metal panel as used on JCM 800	P-H212	29.95
1987 back panel. 24 7/8" x 7 3/4" [3]	P-H213	44.95
Switchable stereo/mono jack plate for back of cabinets [4]	S-H800	19.95
Mono jack plate for back of cabinets	S-H801	11.95
Jack cup for input jack on speaker cabinets [5]	P-H150	8.95
Indicator light, square. 6V [6]	P-L14-6	9.95
Indicator light, square. 120V	P-L14-120	7.95



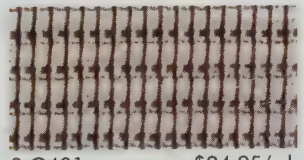
S-GP001 $1.65/ft
Gold Piping, thick Marshall™

S-GP002 $1.60/ft
Gold Piping, thin Marshall™

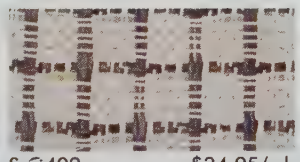


S-GP003 $1.60/ft
White Piping Marshall™

S-G400 $39.95/yd
Cane (biscuit)
Grill Cloth 65" width Marshall™

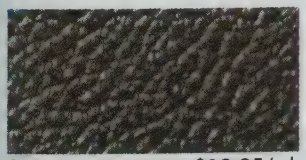


S-G401 $24.95/yd
Bluebreaker Grill Cloth
33.5" width Marshall™

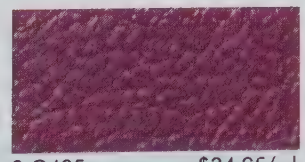


S-G402 $34.95/yd
Large Check
Grill Cloth 32" width Marshall™

S-G403 $34.95/yd
Salt & Pepper
Grill Cloth 32" width Marshall™

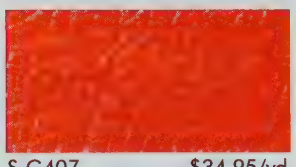


S-G404 $19.95/yd
Black Levant Tolex
50" width Marshall™



S-G405 $34.95/yd
Purple Levant Tolex
50.5" width Marshall™

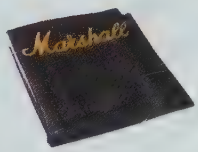
S-G406 $23.95/yd
Black Elephant Tolex
52.5" width Marshall™

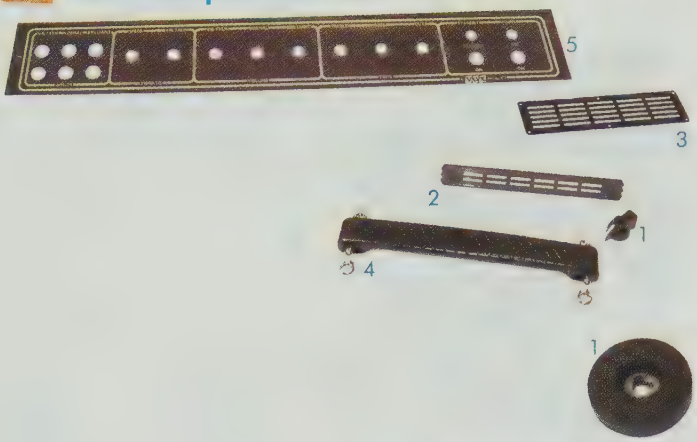


S-G407 $34.95/yd
Red Elephant Tolex
53.5" width Marshall™

Marshall™ Amp Covers

Fits all full size heads	P-HCM-201	$24.95
Fits slant 4x12 cabinets except the 1960TV	P-HCM-202	34.95
Fits straight 4x12 cabinets	P-HCM-203	32.95





Genuine Vox™ Parts

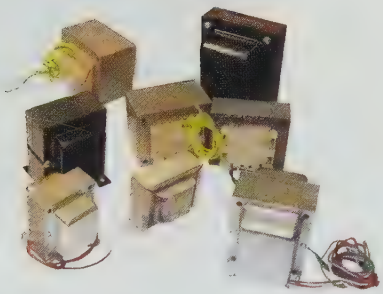
Chickenhead knob, black [1]	P-KV11	$3.95
Old style plastic vent [2]	P-H214	3.95
Metal vent [3]	P-H215	7.95
Handle with brackets [4]	P-H297	13.95
Switch, toggle, power/standby, DPDT	P-H504	12.95
AC30 control panel [5]	P-H740	59.95

Vox™ Corners & Feet

Plastic corners. Sold individually	P-H1093	$3.95
Rubber feet	P-H9200	3.95

Vox™ Logos

Gold, small, for AC10 and AC50 [1]	S-M700	$8.95
Gold, large, for AC30 [2]	S-M701	16.95
Vertical nameplate for T-60 and T-25 [3]	S-M702	12.95

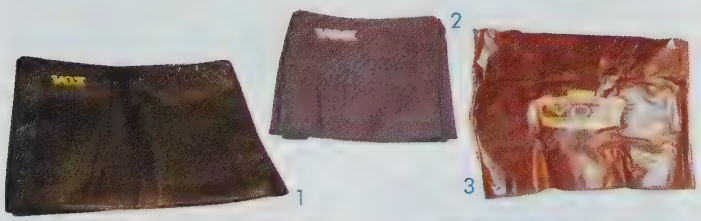


Vox™ Transformers

AC30 reissue output	P-TVO30R	$59.95
AC30 reissue power	P-TVP30R	69.95
AC30 reissue choke	P-TVC30R	39.95
AC15 output	P-TVO15	69.95
AC15 power	P-TVP15	69.95
AC30 vintage output	P-TVO30V	89.95
AC30 vintage power	P-TVP30V	99.95
AC30 vintage choke	P-TVC30V	34.95

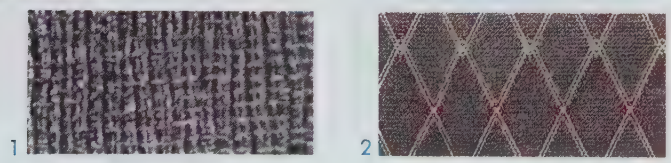
Vox™ Footswitch Boxes

Two button for Pathfinder [1]	P-H880	$32.95
For AC30 [2]	P-H881	69.95



Vox™ Amp Covers

AC30. Black [1]	P-HCV-301	$39.95
Pathfinder. Black [2]	P-HCV-302	24.95
AC15. Brown [3]	P-HCV-303	29.95



Vox™ Grill Cloth/Tolex

Black vinyl tolex, 35" wide [1]	S-G415	$19.95/yd
Black diamond grill cloth, 44" wide [2]	S-G420	44.95/yd

Vox™ Piping

Gold cabinet string, sold by the foot [1]	S-GP008	$1.60
Fascia strip, sold in 15" lengths [2]	S-GP009	3.95

Korg™ Midi Software & Cable

PC compatible software and cable.

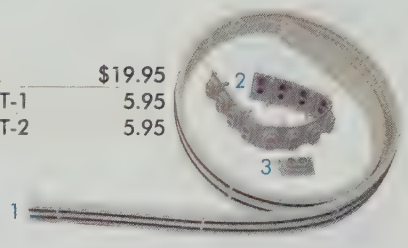
B-CD700	$19.95

Korg™ Footswitch Controllers

EC5 external controller for keyboards [1]	P-H890	$89.00
PS1 pedal switch [2]	P-H891	29.95

Korg™ Key Contacts

Rubber contact strip. 32.5" long. 1 needed [1]	P-KEY-STR	$19.95
For N364 and X5, 5 are required. For N264, 7 are needed. May be cut. Sold individually [2]	P-KEY-CNT-1	5.95
For N364 and X5, 1 is required to complete set. Sold individually [3]	P-KEY-CNT-2	5.95



Korg™ Keys

For M1, Trinity, Triton, 01-W, Wavestation and i30 keyboards

High C [1]	P-KEY-HC	$9.95
A [2]	P-KEY-A	9.95
B & E	P-KEY-B-E	9.95
C & F	P-KEY-C-F	9.95
D [3]	P-KEY-D	9.95
G [4]	P-KEY-G	9.95
Black [5]	P-KEY-BLK	9.95

Korg™ AC Adapters & Power Supplies

9V, 200-300mA, center + for GT3, DT3, AT1, AT2, and AT120 [1]	M-K010	$19.95
4.5V, KA193 for PX4, PX4B, PXR4	M-K020	12.95
KA-210 for D1200, D1200CD, D1200MKII	M-K030	59.95
12V, 400-800mA for KP-1, X5D, X5DR, SP100, KAOSSPAD, O5R/W [2]	M-K040	24.95
9V, 500mA-1.2A, center+ for MS2000, microKONTROL, microKORG, Etribes, DT7, AX1G/B, AX100G, AX1500, GT12, OT12, PX3/3B [3]	M-K050	23.95
9V, 3000mA, KA-163 for EMX-1, ESX-1, TRITON LE, Karma, KM-2, SP-500, D12, N1, N5, N5EX	M-K060	19.95
9V, AC, 4.2A, KA-173, four pin connection for Triton Rack	M-K070	29.95

We are interested in building our parts list for Korg™ keyboards. Please let us know what you would like to see us add by e-mailing us at info@tubesandmore.com

'57 Classic Series Pickups

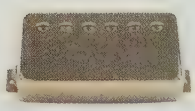
Gibson Guitars was the true pioneer of electric guitar pickups. They invented the first humbucking guitar pickups and their "Patent-Applied For " pickups are still considered the most sought-after pickups in the world. Their quality and attention to detail makes Gibson the true measure of your guitar sound.

A neck or bridge position vintage sounding "Patent Applied For" humbucker. Great variety of tonal possibilities with emphasis on high and low end.

57 Classic, Humbucker, Gold cover	P-PUG1	$97.50
57 Classic, Humbucker, Nickel cover	P-PUG2	94.50

A neck or bridge position vintage humbucker with more output than the '57 Classic. Great clean sound that can produce crunchy rhythms and high gain leads that are enhanced by the extra distortion that this pickup can generate.

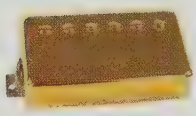
57 Classic Plus, Humbucker, Gold cover	P-PUG3	98.95
57 Classic Plus, Humbucker, Nickel cover	P-PUG4	98.95



Original Gibson Burstbuckers

For neck or bridge position

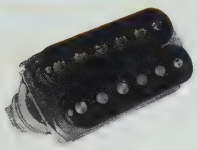
Humbucker. Slightly underwound with medium "vintage" output	P-PUG17	$121.95
Humbucker. Wound in the range of the '57 Classic with slightly hotter "vintage" output	P-PUG18	121.95
Humbucker. Hotter output, works well with P-PUG17 in neck position	P-PUG19	121.95



490 Series Pickups

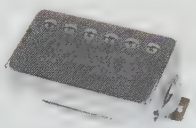
A neck position "modern" vintage humbucker. The tonal characteristics provide a combination of rich, full lows and increased treble clarity.

490R Modern Classic, Humbucker, Chrome cover neck	P-PUG5	$77.50
490R Modern Classic, Humbucker, Double black neck	P-PUG6	70.95
490R Modern Classic, Humbucker, Gold cover neck	P-PUG7	80.95
490R Modern Classic, Humbucker, Nickel cover neck	P-PUG8	77.50



A bridge position "modern" vintage humbucker. The tonal characteristics provide a wide range of possibilities, from great clean rhythms to fat and nasty leads.

490T Modern Classic, Humbucker, Chrome cover bridge	P-PUG9	$77.50
490T Modern Classic, Humbucker, Double black bridge	P-PUG10	70.95
490T Modern Classic, Humbucker, Gold cover bridge	P-PUG11	78.95
490T Modern Classic, Humbucker, Nickel cover bridge	P-PUG12	77.50



498T Series

Original Gibson "Hot AlNiCo"

498T Chrome cover bridge	P-PUG20	$77.50
498T Gold cover bridge	P-PUG21	79.95
498T Nickel cover bridge	P-PUG22	77.50

500T Series Pickups

Super Ceramic, Humbucker, Bridge or neck

Double Black	P-PUG23	$70.95
Zebra	P-PUG24	70.95

P-90 Series Pickups

A single coil soap bar style pickup, and a true Gibson innovation that lives on! The P-90 has a raspy, fat tone with an emphasized midrange punch. It is a rock & roll pickup that has a very unique personality among other pickups. Bridge or neck position.

P-90, Single Coil, Black soapbar cover	P-PUG13	$67.50
P-90, Single Coil, Black dogear cover	P-PUG14	67.50
P-90 Single Coil, Cream soapbar cover	P-PUG25	67.50
P-90 Single Coil, Cream dogear cover	P-PUG26	67.50

Pickup Mounting Rings

1/8", neck. Black [1]	P-PUGMR-NB	$5.95
1/8", neck. Cream [2]	P-PUGMR-NC	5.95
3/8", bridge. Black [3]	P-PUGMR-BB	5.95
3/8", bridge. Cream [4]	P-PUGMR-BC	5.95

Bridges
With full assembles

Chrome ABR-1 [1]	P-GTABR-C	$49.95
Nickel ABR-1 [1]	P-GTABR-N	49.95
Gold ABR-1 [2]	P-GTABR-G	49.95
Chrome Nashville Tune-o-Matic [3]	P-GTTOM-C	49.95
Gold Nashville Tune-o-Matic [4]	P-GTTOM-G	49.95

Bridge Saddles

6 ABR-1 replacement saddles and screws. Chrome [5]	P-GTBS-ABR-C	$19.95
6 ABR-1 replacement saddles and screws. Gold [6]	P-GTBS-ABR-G	19.95
6 Nashville Tune-o-Matic replacement saddles and screws. Chrome [7]	P-GTBS-TOM-C	19.95
6 Nashville Tune-o-Matic replacement saddles and screws. Gold [8]	P-GTBS-TOM-G	19.95

Tailpieces
Stop bars with studs and inserts

Chrome [1]	P-GTBAR-C	$39.95
Nickel [1]	P-GTBAR-N	39.95
Gold [2]	P-GTBAR-G	39.95

1

2

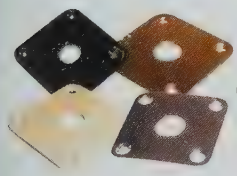
Fret Wire & Nuts

1

Gibson. Pre-cut 2½" length. 26 pieces [1]	P-GTFW21	$11.95
Plastic nut for Gibson. 1⅝" pre cut [2]	P-GTNN01	3.75

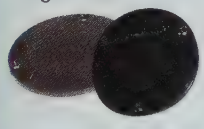
2

Jack Plates
For Gibson Guitars



Black plastic	P-H170	$4.95
Gold	P-H171	9.95
Cream Plastic	P-H172	4.95
Nickel	P-H173	9.50

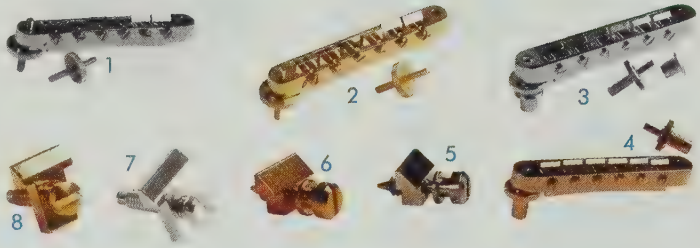
Switchplate Cover
Original Gibson



Black	P-GTSP01	$5.95
Brown	P-GTSP02	5.95

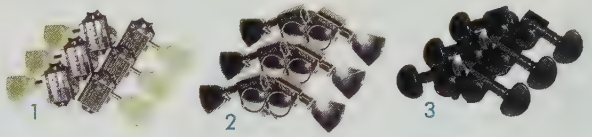
Pickguard and Pickguard Brackets
Original Gibson. For Les Paul series guitars.

Studio black	P-PG50B	$19.95
Custom black 5-ply	P-PG52B	21.95
Standard cream	P-PG54C	19.95
Clear	P-PG56CL	19.95
Bracket, Gold	P-PGB01	9.95
Bracket, Chrome	P-PGB02	8.95
Bracket, Nickel	P-PGB03	8.95



Tuner Machine Heads

Vintage nickel with pearloid buttons [1]	P-GTMH20	$59.95
Vintage gold with pearloid buttons [1]	P-GTMH22	62.95
Modern nickel with metal buttons [2]	P-GTMH21	34.95
Modern gold with metal buttons [2]	P-GTMH23	39.95
Black Grover [3]	P-GTMH24	39.95



Strap Buttons
Original Gibson

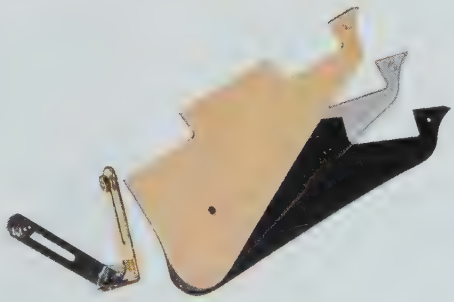
Brass. Package of 2	P-GTSB01	$3.25
Aluminum. Package of 2	P-GTSB02	3.25

Switchwasher
Original Gibson

Black w/gold imprint	P-GTWA01	$3.95
Black w/white imprint	P-GTWA02	3.95
Cream w/gold imprint	P-GTWA03	3.95

Truss Rod Cover
P-GTTR01 $8.95

Original Gibson, black, blank

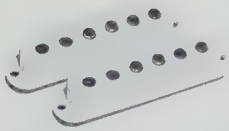


Fender

Stratocaster Lace-Sensors

Low noise and high output for incredible response and sustain. Each color represents a different sound: Gold is the classic Vintage Strat sound with glassy bell like tones. Blue is warm and loud like an old 50's humbucker. Each comes with a white cover.

Gold	P-PUF56	$39.95
Blue	P-PUF57	58.95

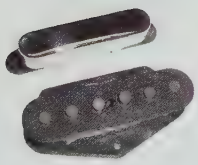


Stratocaster

Texas Special Strat Set of 3 - Bridge, Middle, Neck
Overwound, calibrated, vintage style Stratocaster pickups with plenty of midrange chirp, crystal highs and tight bass. AlNiCo 5 magnets and enamel coated magnet wire create the increased output that demands respect! P-PUF50 $129.95

Vintage Noiseless Set of 3 - Bridge, Middle, Neck
Special beveled edge AlNiCo 5 magnets and enamel-coated magnet wire produce the brilliant clarity, definition and harmonic attributes of a vintage Strat in a "noiseless" package. Each Vintage "Noiseless" Strat pickup comes with 3 pots, a capacitor and resistor to enhance your "Noiseless" experience. P-PUF51 129.95

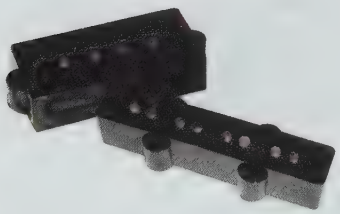
'57/'62 Strat Single Coil DC Resistance: 5.6K Inductance: 3.0 Henries P-PUF52 39.95



Telecaster

These overwound Tele pickups are constructed with AlNiCo 5 magnets and enamel coated magnet wire. The bridge pickup features height staggered magnets and a copper plated steel bottom plate for increased output, presence and midrange, while the nickel-silver cover on the neck pickup produces a clear warm tone that only a true Custom Shop Tele pickup can do.

Texas Tele Bridge/Neck DC Resistance: 10.5K Inductance: 3.95 Henries	P-PUF53	$112.95
Original Tele Neck: DC Resistance: 7.7K Inductance: 2.45 Henries	P-PUF54	49.95
Original Tele Bridge DC Resistance: 7.2K Inductance: 3.27 Henries	P-PUF55	49.95

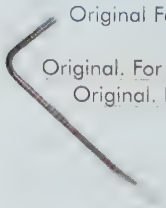


Bass Guitars

Fender Precision Bass Pickup	P-PUF60	$64.95
Fender Jazz Bass Pickup, Neck	P-PUF61	44.95
Fender Jazz Bass Pickup, Bridge	P-PUF62	44.95

Tremolo Arms

Original Fender®



Original. For American Stratocaster	P-GTARM01	$9.95
Original. For Vintage Stratocaster	P-GTARM02	10.95

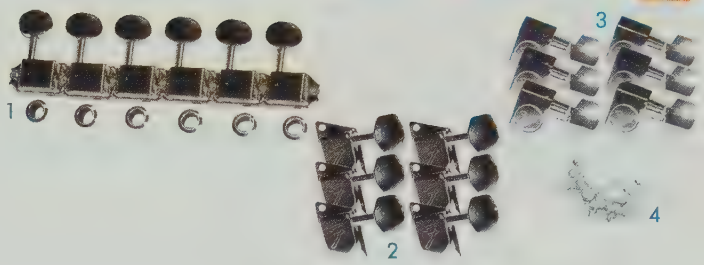
Fret Wire & Nuts

Fender® Standard guitar. Pre-cut, 24 pieces P-GTFW01 $9.95

Fender® Vintage guitar. Pre-cut, 24 pieces P-GTFW02 9.95

Tuner Machine Heads

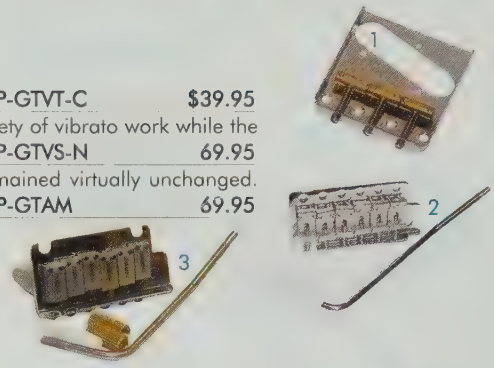
Vintage style for Strats and Teles. Set of 6 [1]	P-GTMH01	$34.95
1970's "F" style. Set of 6 [2]	P-GTMH02	39.95
American Series. Chrome. Set of 6 [3]	P-GTMH03	39.95
Vintage tuner mounting screws. Pkg of 12 [4]	P-GTTS	2.50



Bridge Sections

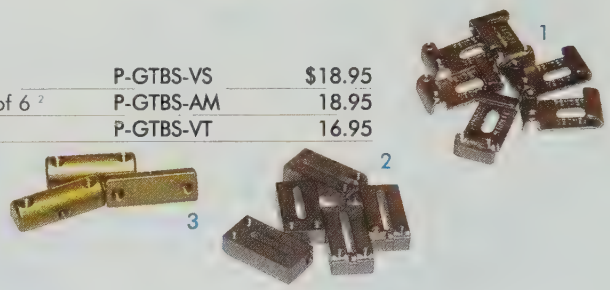
Made from the highest quality materials, Fender bridge sections come with springs and screws.

Vintage Tele, 3-saddle. Chrome [1]	P-GTVT-C	$39.95
American Vintage assembly for '62 reissue Strat. Two heavy-duty pivot screws allow you to do a variety of vibrato work while the solid steel saddles provide the tone and sustain that is truly Fender Nickel [2]	P-GTVS-N	69.95
Vintage Strat tremolo assembly. Since the creation of the Stratocaster, this vintage tremolo has remained virtually unchanged. Nickel-plated "Fender" saddles and 6 mounting screws define the vintage tone of this tremolo assembly. [3]	P-GTAM	69.95



Saddles

Vintage Strat. Nickel-plated saddles with centered intonation screws. Set of 6 [1]	P-GTBS-VS	$18.95
American Series. Powder coated steel bridge sections with offset intonation screws. Set of 6 [2]	P-GTBS-AM	18.95
Vintage Tele, Brass with centered intonation screws. Set of 3 [3]	P-GTBS-VT	16.95



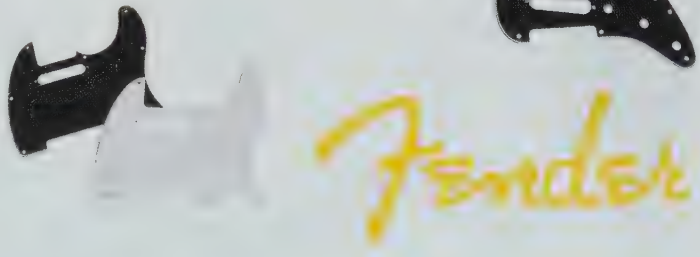
Stratocaster Pickguards

For American Stratocasters. Fits most American and Mexican Strats. 11-hole, 3-ply. Black	P-PG10B	$18.95
For American Stratocasters. Fits most American and Mexican Strats. 11-hole, 3-ply. White	P-PG10W	18.95
For Vintage Strats, 11-hole, 3-ply. Black	P-PG12B	18.95
For Vintage Strats, 11-hole, 3-ply. White	P-PG12W	18.95

Telecaster Pickguards

For most American Telecasters

8-hole, 3-ply. Black	P-PG14B	$18.95
8-hole, 3-ply. White	P-PG14W	18.95



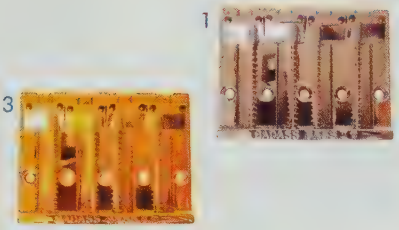
Pickguard Screws

Original Fender. Package of 24

P-PGA1 $3.50

LEO QUAN BADASS

All BADASS™ products are made of specially developed high density alloy Zinc. Engineered for the most efficient sound-coupling effects possible when mounted on wood guitar & bass bodies. The transference of resonance characteristics is superior to any other metal. BADASS™ products are designed by professional guitarists and bass players. Installation is simple though we recommend the services of a Professional Guitar technician for best results in setting the strings and calibrating the harmonics.



Bass II Bridge

The Badass® Bass II is a direct Fender® bridge conversion, requiring no modifications or alterations to your bass. Can be used in P-bass and J-bass.

Chrome [1]	P-BAII-C	$73.95
All black [2]	P-BAII-B	93.95
Gold [3]	P-BAII-G	108.95
Old Nickel [1]	P-BAII-N	84.95

Bass V Bridge

P-BAV-C $98.95

This is a 5 string version of the Badass® II bass bridge that has become world famous over the years as a replacement for Fender® bridges. This is one of the best bass bridges you can buy and is in use on countless basses worldwide. Chrome.

Guitar Bridge

P-BAGT-N $83.95

The Badass® Guitar Bridge is designed to retrofit the original Gibson® combination tailpiece bridges. It allows you to intonate each string individually where the original bridge did not. Can be used in most Les Paul®s. Old nickel.

Gibson® Strings

Vintage Re-Issue. Pure Nickel

.009-.042	S-SVR9	$5.25
.010-.046	S-SVR10	5.25
.011-.050	S-SVR11	5.25

Les Paul®. Pure Nickel

.008-.038	S-SLP8	5.85
.009-.042	S-SLP9	5.85
.010-.046	S-SLP10	5.85

Fender® Strings

Original 150's. Ball End

.008-.038	S-S150SL	$3.15
.009-.040	S-S150XL	3.15
.009-.042	S-S150L	3.15
.010-.038	S-S150	3.15
.010-.046	S-S150R	3.15
.011-.049	S-S150M	3.15

Original 250's. Ball End

.009-.042	S-S250L	3.15
.010-.046	S-S250R	3.15
.011-.049	S-S250M	3.15

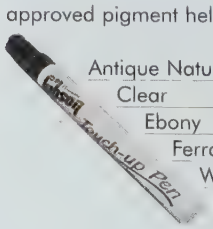
Vintage Reissue Guitar Restoration Kit

P-GTRK1 $12.95

Includes restoration cream, premium fretboard conditioner, low-abrasion metal cleaner, and two polishing cloths.

Touchup Pens

The nitrocellulose lacquer helps protect exposed wood. The factory approved pigment helps to match the original finish.



Antique Natural	S-F400	$4.95
Clear	S-F401	4.95
Ebony	S-F402	4.95
Ferrari Red	S-F403	4.95
Wine Red	S-F404	4.95

Guitar Cable with Straight Phone Plugs

Excellines cables are the world renown industry standard and the musician's choice. Made with G&H ¼" BigFoot phone plugs.

1 foot	P-HEG1	$4.95
2 feet	P-HEG2	5.50
3 feet	P-HEG3	5.95
5 feet	P-HEG5	6.30
10 feet	P-HEG10	7.55
15 feet	P-HEG15	8.80
18.5 feet	P-HEG186	9.60
25 feet	P-HEG25	11.35
30 feet	P-HEG30	12.60

Cable With One Straight Phone Plug and One Right Angle Phone Plug

Made with G&H ¼" BigFoot phone plugs.

10 feet	P-HEG10L	$9.95
18.5 feet	P-HEG186L	11.95

16 AWG Speaker Cables ¼" Phone Plug to ¼" Phone Plug

Excellines 16 AWG two conductor portable speaker wire with G&H phone plugs.

3 feet	P-HSG16-3	$7.40
6 feet	P-HSG16-6	7.70
10 feet	P-HSG16-10	8.90
25 feet	P-HSG16-25	13.50

20 AWG Instrument Cable by the Foot

P-HEG-FT $0.48/ft

Make your own cable! Excellines 20 AWG 26 strand guitar cable. Shielded. Sold by the foot.

16 AWG Speaker Cable by the Foot

P-HSG-FT $0.48/ft

Make your own cable! Excellines 16 AWG two conductor. Non-shielded. Sold by the foot.

Right Angle RCA Cables

For reverb tanks and other electronic devices.

3 foot cable	S-H273	$1.95
6 foot cable	S-H276	2.50

See page 49 for G&H plugs

Fender® Guitar Cables

Vintage Cables provide a quality tone and vintage look. Each cable is constructed of gold tipped plugs and oxygen-free copper wire. They are wrapped with either tweed, black & silver, wheat or oxblood woven exteriors.

Tweed, 10 feet [1]	P-H272	$13.95
Tweed, 18 feet [1]	P-H273	15.95
Black/Silver, 10 feet [2]	P-H274	13.95
Black/Silver, 18 feet [2]	P-H275	15.95
Brown/Wheat, 10 feet [3]	P-H276	13.95
Brown/Wheat, 18 feet [3]	P-H277	15.95
Brown/Oxblood, 10 feet [4]	P-H278	13.95
Brown/Oxblood, 18 feet [4]	P-H279	15.95

Rat 2

M-RAT2 $89.95

Researched and designed to produce a sound that is radically different from any "distortion" you've ever heard before - a sound as mellow as a vintage "twin", or as bone-crushingly powerful as a battery of those famous English stacks - instantly, at any volume. Smooth, continuously variable controls for distortion amount, filter cutoff and volume level let you preset just the right degree of overdrive, tune in on the presence and balance the output for that perfect extra boost. Distortion, sustain, fuzz, overdrive - from the sweet wail of the blues to the grinding raunch of the heaviest metal - STOMP ON A RAT! 4" x 3 ½" x 3" 1.6 lbs

Vintage Rat

M-VRAT $104.95

For years, guitarists have sought that "magic" sound, that elusively perfect blend of distortion, sustain and cutting power, usually found only at a volume too loud for club and studio work. The Rat is designed to produce a sound that is radically different from any "fuzztone" you've ever heard - a sound that sings and wails the blues, or spits and screeches the hardest rock 'n roll. The Rat's smooth harmonic distortion and effortless sustain put the extra punch in rhythm work and make solos cut through with authority and power. Also, the Rat won't change the tone or power of your guitar when it's turned off; its true bypass switch disconnects it completely from the instrument when it is not in use, eliminating the loading effects common among other devices. Distortion, sustain, fuzz, or overdrive: the sound remains unmistakably yours - not fake or gimmicky. 4" x 3½" x 3" 1.4 lbs

Turbo Rat

M-TRAT $89.95

Feel the crunch and power of the distortion pedal designed to take you to new and unexplored heights. The Pro Co TurboRAT enables you to break away from the pack and drive beyond the realm of traditional distortion devices. The maximum output of 2.8 V (P-P) is more than double that of the "Turbo's" predecessors. Special care has been taken to preserve the hard-clipping harmonic distortion of the "great RAT tone" so that there is no sacrifice of sound in achieving its tremendous output. Heavy duty steel enclosure , LED indicator light , glow-in-the dark graphics. Dare to go beyond the limits of your imagination. Kick on your TurboRAT and DRIVE! 4" x 3½" x 3" 1.8 lbs

Deuce Tone Rat

M-DTRAT $174.95

The R2DU revisited! A modern day version of the original, the Deuce Tone Rat is equipped with two diode select switches to produce a variable sonic palette utilizing tones from the Vintage, Turbo, and two never before heard Rat sounds - the Clean and Dirty Rat. The two Rats can be used simultaneously or independently to turn your single channel amp into a multi-channeled monster. Rugged steel chassis and mil-spec epoxy-glass pc board insure long life and durability. 4" x 7" x 3" 3 lbs

Juggernaut - The Bass Player's Rat

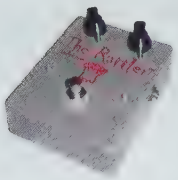
M-JRAT $174.95

Now, bass players can have their own radically different sound designed specifically for the bass. Provides three functions: A versatile distortion unit, a mixer to combine distortion with direct sound, and an effects loop for use with external processing devices. Utilizing the same steel enclosure as the Deucetone Rat, the built-like-a-tank Juggernaut is virtually indestructible. 4" x 7" x 3" 3 lbs

Rat Battery Eliminator

M-RPS1 $14.95

No more searching for 9-volt batteries or electrocuting your tongue to find a good one. Works with all Rats. 2" x 1 ½" x 1 ½". 0.4 lbs



The Rattler™ Effects Pedal Kit

K-900 $49.95

Build your own distortion effects pedal!

Tone similar to the Vintage 60's and 70's effects pedals. Pre-drilled diecast aluminum boxes. Comes with variable components to customize your tone! Uses 9-volt battery which is not included. 12 oz.

Maxon® OD808 Overdrive

M-OD808 $119.95

The Original Overdrive! The OD808 is often imitated but never matched! Identical to the 1970's circuit and featuring the JRC4558 IC chip, it offers warm, smooth, transparent overdrive that'll make your rig scream! The OD808's dynamically responsive circuitry reacts precisely to individual playing styles, letting the true voice of any instrument or artist shine through. Don't settle for copies when you can have the original! 4¼" x 2¼" x 2" 0.8 lbs

Maxon® CP101 Compressor

M-CP101 $127.50

Provides clean, smooth compression with low noise. Unlike other compressors, the CP101 doesn't alter an instrument's attack characteristics, providing a more natural response. The CP101 can be used to increase an instrument's sustain or to limit signal peaks for a smooth, even output. The CP101 works perfectly with bass guitar, electric guitar or semi-acoustic guitar.
4¼" x 2¼" x 2" 0.8 lbs

Maxon® OD9 Overdrive

M-OD9 $135.00

The OD9 may look just like your old favorite, but that's where the similarities end. Improved circuitry featuring the JRC4558 IC yields the ultra-smooth, creamy, dynamic overdrive so sought after by guitarists. Overdrive and output level controls adjust the intensity of overdrive and output volume, while the Hi Boost/Hi Cut Tone control adjusts the brightness from warm and smooth to sizzling hot. From subtle boosts to outrageous roars, the OD9 provides the artist with the widest range of usable, distinctly tube sounds available.

Roger Mayer Vision Octavia

M-VO $179.00

The new and improved with a new look *Vision Octavia* is Roger Mayer's most famous and distinctive creation. This effect was designed in early 1967 and featured on "Purple Haze" and "Fire" by Jimi. Its unique tones can also be heard on such tracks as "One Rainy Wish," "Little Miss Lover," "Little Wing," and "Machine Gun" etc.
The *Vision Octavia* produces a sound that is an octave higher than the note you are presently playing. This doubling effect is accomplished through electronic mirror imaging techniques that are program sensitive and also respond to the feedforward inputs of the player. The electronic circuitry is analog in design and will react faithfully to all the subtleties and harmonic overtones from the guitar.

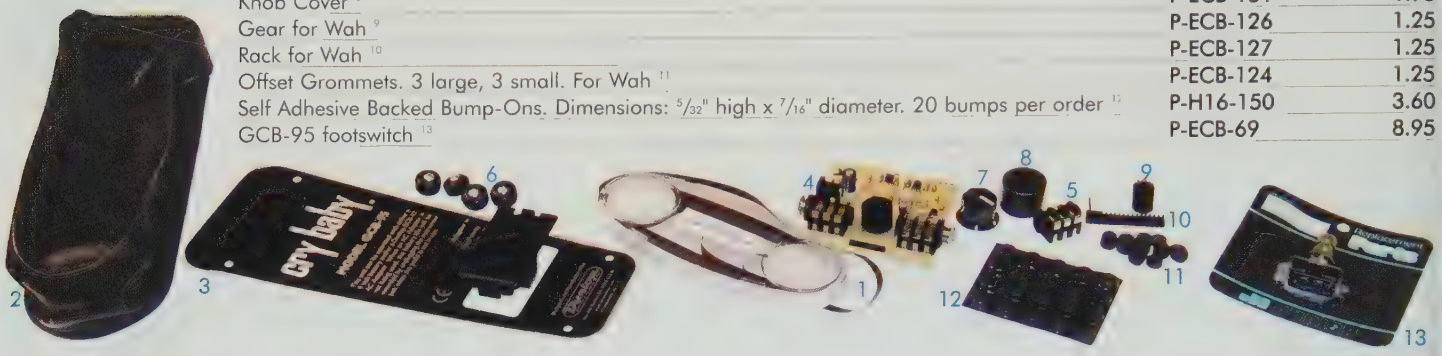
Hotplate™ Power Attenuator

A power attenuator is a device placed between the speaker output and the speaker cabinet. It acts like a huge master volume control and permits the amp to be turned up most or all the way while absorbing most of the power generated by the amplifier and turning this power into heat. It passes a small part of the power to the speaker. Hotplates™ are used in recording studios for better separation between the instruments, and for use when the speaker sounds best at low levels, needs to play at low levels, or if it can't handle the power output. The Hotplate™ also makes a perfect dummy load. They can take 185 watts RMS continuous. The attenuation feature allows you to hook a speaker cabinet up to the load to monitor the signal. The line-out feature allows you to monitor the signal via a separate amplifier or hi-fi. The light shows you visually when there is signal present, and how much (relatively).

2 ohm Gold	M-HP-2	$279.00
4 ohm Red	M-HP-4	279.00
8 ohm Purple	M-HP-8	279.00
16 ohm Blue	M-HP-16	279.00

Dunlop Effects Pedal Parts

Echoplex Tape Cartridge [1]	P-ECH-1	$22.25
Rocker Pedal Bag [2]	P-PB-101	7.95
GCB-95 Bottom Plate with Battery Door [3]	P-ECB-152	10.95
Crybaby PC Board. Loaded with all necessary components [4]	P-ECB-25	18.25
Stereo Jack [5]	P-ECB-18	2.95
Rubber Feet with Screws. Package of four [6]	P-ECB-151	2.25
Knob [7]	P-ECB-130	1.95
Knob Cover [8]	P-ECB-131	1.95
Gear for Wah [9]	P-ECB-126	1.25
Rack for Wah [10]	P-ECB-127	1.25
Offset Grommets. 3 large, 3 small. For Wah [11]	P-ECB-124	1.25
Self Adhesive Backed Bump-Ons. Dimensions: 5/32" high x 7/16" diameter. 20 bumps per order [12]	P-H16-150	3.60
GCB-95 footswitch [13]	P-ECB-69	8.95



Dunlop Potentiometers

Hot Potz 100K Crybaby Potentiometer [1]	P-ECB-24	$24.95
Hot Potz 470k Pot [2]	P-ECB-24A	20.25
Hot Potz II 100K Crybaby Pot [3]	P-ECB-24B	20.25
Mr. Crybaby Super Pot [4]	P-ECB-24EW	39.95

Morley Effects Pedal Parts

Replacement Light Bulb	P-LTX387	$1.95
Photocell	R-VPC01	1.95

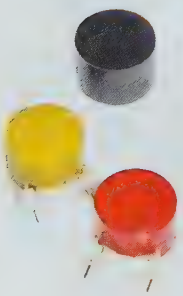
See page 47 for footswitches

Replacement Pots for Wah

100K Wah pot from Fulltone [1]	R-VWAH	$16.95
Life Pot 100K Wah pot. High grade replacement and upgrade wah pedal pot supplied with all necessary hardware and gear for immediate installation [2]	R-VWAH-LP	15.95

Adapters

AC Plug for Dunlop pedals. 9 volt. US [1]	P-ECB-002	$9.50
AC Barrel for Dunlop pedals. 9 volt. US [2]	P-ECB-003	9.50
ProCo Rat battery eliminator [3]	M-RPS1	14.95



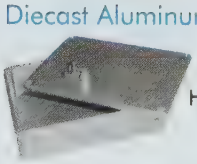
Dunlop Fasel Inductor

The Fasel inductor is back! These near-mythical inductors are the key to the singing tonal sweep every wah player lusts after but can't capture with a new pedal. The ultimate upgrade to your current wah, these magic bullets are available exclusively from Dunlop, the new worldwide agent for Fasel of Italy. Choose the precision-wound Toroidal for the cleanest sound possible or, for die-hard vintage vibe, install the authentic cup core version. Either way your wah will finally give up the lush harmonic sparkle you've always heard in your head but could never coax from your rig.

Fasel cup core model. Yellow	P-ECB-FI-01	$17.95
Fasel toroidal model. Red	P-ECB-FI-02	17.95
Standard inductor., 500 ohm	P-ECB-156	9.95

Diecast Aluminum Enclosure

P-H1590BBCE $8.75



Same as Hammond 1590BB but generic manufacture from Taiwan. 4.7" x 3.7" x 1.18"D. **See page 76 for Hammond enclosures.**

9 Volt Clips

S-H155 $0.45

Package of 3

Motor Assembly for Leslie 122/147

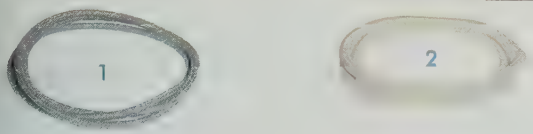
Upper Slow [1]	P-OH-101	$49.95
Lower Slow [2]	P-OH-102	49.95

Motor Rebuild Kits for Leslie 122/147

Upper Slow [1]	P-OH-201	$3.95
Lower Slow [2]	P-OH-202	3.95

Leslie Belts

Upper drive. 25.5" [1]	P-OH-301	$15.40
Lower drive. 31" [2]	P-OH-302	17.00



Leslie Relays

110 VDC for the 122 [1]	P-OH-401	$32.95
115 VAC for the 147 [2]	P-OH-402	32.95

Miscellaneous Leslie Parts

O Ring. Large pulley rim drive	P-OH-501	$3.25
17" rotor cover for 122 and 147 [2]	P-OH-502	27.95
Upper belt tension spring [3]	P-OH-503	10.95
Upper tension idler bearing [4]	P-OH-504	13.95
Lower rotor bearing [5]	P-OH-505	13.75
Plug. 6 pin. Male [6]	P-OH-506	9.95
Socket. 6 pin. Female [7]	P-OH-507	9.95
Plug cover kit for connectors [8]	P-OH-508	9.95
Grommet kit of all rubber parts [9]	P-OH-509	39.95
Back screw set. 13 Phillips screws with washers [10]	P-OH-510	8.95

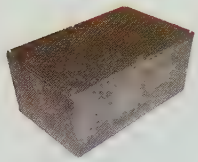
Jensen loudspeakers Replacement Speakers for Leslie Cabinets

Available in 8 and 16 ohms. Please specify when ordering.

P15N- AlNiCo magnet. 50 Watts	P-A-P15N	$159.95
C15N- Ceramic magnet. 50 watts	P-A-C15N	79.95
C15K- Ceramic magnet. 100 watts	P-A-C15K	91.95
Extra gasket for proper spacing of speaker. Package of 4, enough for one speaker	P-A-GASKET-15	6.00

HAMMOND MANUFACTURING

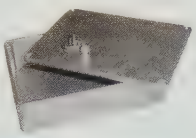
- Spot welded heavy duty construction chassis
- Steel Boxes are Painted ASA 61 Grey Baked Enamel Finish
- Aluminum boxes are natural finish
- Covers are punched with 4 holes - $^{3}/_{16}$" dia.



1590 Series Diecast Aluminum Enclosures

Countersunk lid with machine screws into drilled and tapped holes. Lap joint construction provides protection from dust and water. Vibra finished, no sharp edges. NOTE: Add .016" to enclosure depth to compensate for the extra height of the lid.

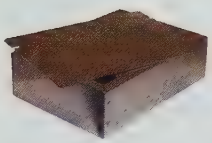
	Size without lid		Price
P-H1590A	3.64" x 1.52" x 1.06"D		$6.49
P-H1590B	4.39" x 2.34" x 1.06"D		7.42
P-H1590BB	4.67" x 3.68" x 1.18"D		9.64
P-H1590BBBK	4.67" x 3.68" x 1.18"D	Black Powder Coated	12.54
P-H1590C	4.72" x 3.70" x 2.07"D		10.85
P-H1590D	7.38" x 4.70" x 2.05"D		17.76
P-H1590E	7.38" x 4.70" x 3.07"D		19.00
P-H1590F	7.38" x 7.38" x 2.48"D		25.55
P-H1590LB	1.99" x 1.99" x 1.06"D		6.70



Diecast Aluminum Enclosure

Same as Hammond 1590BB but generic manufacture from Taiwan

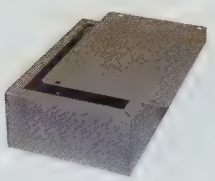
P-H1590BBCE	4.7" x 3.7" x 1.18"D	$8.75



Aluminum Chassis Boxes

Note: Dimensions shown are exterior measurements

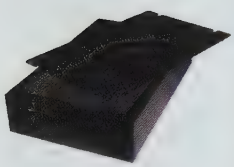
	Thickness	Size	Price	Cover	Price
P-H1444-8	.04"	6" x 4" x 2"	$7.30	P-H1434-8	$3.68
P-H1444-12	.04"	7" x 5" x 2"	7.98	P-H1434-12	3.61
P-H1444-16	.04"	10" x 6" x 2"	10.43	P-H1434-16	5.53
P-H1444-18	.04"	13.5" x 5" x 2"	11.04	P-H1434-18	5.90
P-H1444-22	.051"	12" x 8" x 2"	18.20	P-H1434-22	7.80
P-H1444-32	.051"	17" x 10" x 3"	24.85	P-H1434-30	8.26



20 Gauge Steel Chassis Boxes

Note: Dimensions shown are exterior measurements

	Size	Price	Cover	Price
P-H1441-8	6" x 4" x 2"	$7.89	P-H1431-8	$3.98
P-H1441-12	7" x 5" x 2"	8.61	P-H1431-12	3.91
P-H1441-16	10" x 6" x 2"	11.27	P-H1431-16	5.97
P-H1441-18	13.5" x 5" x 2"	11.93	P-H1431-18	6.35
P-H1441-20	17" x 4" x 3"	19.75	P-H1431-20	6.44
P-H1441-22	12" x 8" x 2"	19.67	P-H1431-22	8.46
P-H1441-26	16" x 8" x 2"	19.82	P-H1431-26	8.46
P-H1441-29	12" x 10" x 2"	19.77	P-H1431-29	8.46
P-H1441-32	17" x 10" x 3"	26.84	P-H1431-30	8.92



Black Powder Coated 20 Gauge Steel Chassis Boxes

	Size	Price	Cover	Price
P-H1441-8BK3	6" x 4" x 2"	$7.89	P-H1431-8BK3	$3.98
P-H1441-12BK3	7" x 5" x 2"	8.61	P-H1431-12BK3	3.91
P-H1441-16BK3	10" x 6" x 2"	11.27	P-H1431-16BK3	5.97
P-H1441-18BK3	13.5" x 5" x 2"	11.93	P-H1431-18BK3	6.35
P-H1441-22BK3	12" x 8" x 2"	19.67	P-H1431-22BK3	8.46
P-H1441-32BK3	17" x 10" x 3"	26.84	P-H1431-30BK3	8.92

Steel Cages - 20 Gauge

Note: Dimensions shown are exterior measurements

	Size	Price
P-H1451-16	10" x 6" x 5.2"	$27.41
P-H1451-22	12" x 8" x 5.2"	31.28
P-H1451-30	17" x 10" x 5.2"	37.83

Pan Head Philips Machine Screws

Zinc, package of five.

4-40 x 1/4"	S-HS440-14	$0.30
4-40 x 3/8"	S-HS440-38	.30
4-40 x 1/2"	S-HS440-12	.25
4-40 x 3/4" Slotted head, not Philips!	S-HS440-75	.40
6-32 x 1/4"	S-HS632-14	.35
6-32 x 1/4"	S-HS632-14	.40
6-32 x 1/2"	S-HS632-12	.40
8-32 x 3/8"	S-HS832-38	.35
8-32 x 1/2"	S-HS832-12	.50
8-32 x 3/4"	S-HS832-34	.50
10-32 x 1/2"	S-HS1032-12	.65
10-32 x 3/4"	S-HS1032-34	.75
10-32 x 1"	S-HS1032-1	.75

Pan Head Self Tapping Screws

Zinc, package of five.

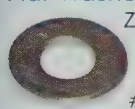
#6 x 3/8"	S-HST6-38	$0.40
#8 x 3/8"	S-HST8-38	.50
#8 x 1/2"	S-HST8-12	.50

Machine Screws

Stainless steel with large head. Ideal for transformer mounting. Package of four.

#10	P-H245	.60

Flat Washers



Zinc, type A narrow, package of five.

#4	S-HW4	$0.20
#6	S-HW6	.30
#8	S-HW8	.20
#10	S-HW10	.30

Fiber Washer Assortment

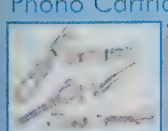
S-H402 $0.65

"C" Washer Assortment

S-H401 $0.75

Contains 25 of the most popular sizes.

Phono Cartridge Connector Assortment



25 pieces S-P002 $0.45

Spindle

S-P100 $4.25

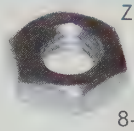
Universal 45. *While Supplies Last!*

Internal Tooth Lock Washers

Zinc, package of five.

#4	S-HLW4	$0.40
#6	S-HLW6	.40
#8	S-HLW8	.40
#10	S-HLW10	.45

Finished Hex Nuts



Zinc, package of five.

4-40	S-HHN440	$0.20
6-32	S-HHN632	.30
8-32	S-HHN832	.30
10-32	S-HHN1032	.30

T-Nut

Zinc, package of five.

6-32	S-HTN632	$1.00
8-32	S-HTN832	1.00
10-32	S-HTN1032	.85

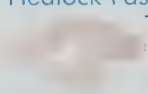
Decorative Head Screws

Similar to those used for speaker mounting on 1930's vintage radio cabinets. All are #8-32, 1½" long. Sold in Packages of four.

Nickel Plated [1]	P-H240	$1.90
Brass Plated [2]	P-H241	1.90
Bronze Plated [3]	P-H242	1.90
Unplated [4]	P-H243	1.90
Nickel Plated [5]	P-H244	1.90

Hedlock Fasteners

S-SJ-3201 $0.60



These super sturdy fasteners are great for speaker covers or helping prevent earthquake damage. Four sets of two clips. (Package of 8)

Fahnestock Clip

Spring clip ¾" long for up to 14 gauge wire. #6 mounting hole.

package of 100	S-H11-4034	$11.95
package of 6	S-H11-4043-6	.90

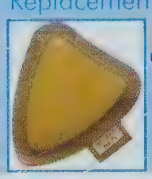
Conventional Phonograph Needles

S-P119 $1.95

For all set screw and thumb screw cartridges. Straight steel needles, good for 12 plays each. Package of 25.

Replacement Needles

S-P999 $0.45

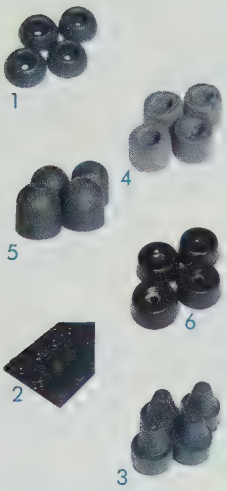


While Supplies Last! Crystal sapphire. 33-45-78 speed, used in Arista/Astatic.

Rubber Chassis Mount Washers

Gum rubber chassis mounting washers as used on 30's vintage Zenith and Philco radios. Allows proper dial centering in cabinet opening. P-H182 and P-H185 have adhesive backing for laminating to other washers to increase the thickness. 1/4" inner diameter. Sold individually.

1 1/4" diameter x 1/8" thick	P-H182	$0.95
1 1/4" diameter x 1/4" thick	P-H183	.95
7/8" diameter x 1/8" thick	P-H185	1.05
7/8" diameter x 1/4" thick	P-H186	1.10
1 1/8" diameter x 3/8" thick	P-H187	1.25



Rubber Bumpers and Feet

Screw On Type:

Package of 4. 1/2" diameter x 1/4" high [1]	P-H1308	$1.50
Package of 4. 5/16" diameter x 3/8" thick [1]	P-H253	2.00

Recessed Bumpers:

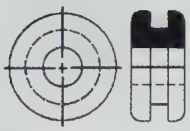
Package of 4. 5/8" diameter x 1/2" high [4]	P-H2082	2.40
Package of 4. 5/8" diameter x 1/2" high, Steel insert [4]	P-H2082S	2.90
Package of 4. 1" diameter x 1" high [5]	P-H2097	5.60
Package of 4. 1" diameter x 1" high, Steel insert [5]	P-H2097S	5.60
Package of 4. Large tapered rubber foot with zinc washer. 1 1/4" diameter [6]	P-H9107	3.00

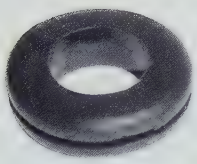
Self Adhesive Backed Bump-Ons:

Dimensions: 5/32" high x 7/16" diameter. 20 bumps per order [2]	P-H16-150	3.60

Button Bumpers:

Dimensions: 7/16" diameter x 5/16" high. Package of 4 [3]	P-H1309	1.20

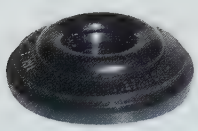




Rubber Grommets

Protect electrical wires and cables from sharp edges in holes drilled through chassis boxes. Package of 5.

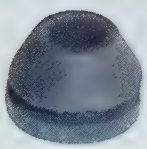
Chassis Hole Diameter	Grommet Hole Diameter	Groove Width	Part	Price
1/4"	5/32"	1/16"	P-G014	$0.85
1/4"	5/32"	5/64"	P-G018	1.95
3/8"	1/4"	1/16"	P-G038	1.25
5/16"	3/16"	1/16"	P-G516	1.25
5/16"	3/16"	7/64"	P-G516A	1.25
7/16"	1/4"	1/16"	P-G716	1.25
7/16"	5/16"	1/16"	P-G717	1.95
1/2"	3/8"	1/16"	P-G005	1.95
3/4"	9/16"	1/16"	P-G034	1.95
1"	11/16"	1/16"	P-G100	1.95



Vibrapod

Enhance your listening sessions! These affordable vibration isolators improve bass definition and depth, dynamics, imaging, detail resolution ambiance, clarity and sound stage. Four different models support from 2 to 28 pounds each. All are 2 1/2" diameter x 9/16" high. Temperature range from 50°F to 100°F.

Model 1: has a weight range of 2-3 lbs each, recommended weight is 2 1/2 lbs. Suggested uses: CD, DVD, Laserdisc players & transports, DSS receivers, DAC's, preamps, amplifiers and speakers up to 32 lbs.	S-VIBRA1	$5.50
Model 2: has a weight range of 4-8 lbs each, recommended weight is 6 lbs. Suggested uses: CD, DVD, Laserdisc players & transports, DSS receivers, DAC's, preamps, amplifiers and speakers from 24-72 lbs.	S-VIBRA2	5.50
Model 3: has a weight range of 8-12 lbs each, recommended weight is 10 lbs. Suggested uses: Heavy amps or speakers, units over 72 lbs.	S-VIBRA3	5.50
Model 4: has a weight range of 14-18 lbs each, recommended weight is 16 lbs.	S-VIBRA4	5.50
Model 5: has a weight range of 22-28 lbs each, recommended weight is 25 lbs. Suggested uses: Extremely heavy amps or speakers, units over 200 lbs.	S-VIBRA5	5.50



Motor Mounting Grommets

Rubber grommets for mounting phonograph motors. Measure 1/2" diameter, 5/16" high and 1/4" inner diameter. Package of 9.

P-R407 $4.50

Terminal Strips

Standard size terminal strips, 1/16" thick bakelite, tin plated steel solder lugs and brackets on 3/8" centers. Sold in bags of 5.

Solder Lug Style	Part	Price
1 lug 0 ground	P-0100H	$1.75
2 lug 1 ground	P-0201H	1.75
2 lug 1 ground, first lug common	P-0201H01	1.75
3 lug 0 ground vertical mount	P-0300V	3.25
3 lug 0 ground	P-0300H	1.95
3 lug 1 ground	P-0301H	1.95
3 lug 1 ground, first lug common	P-0301H01	1.95
3 lug 1 ground, third lug common	P-0301H03	1.95
4 lug 1 ground	P-0401H	2.25
4 lug 1 ground, first lug common	P-0401H01	2.25
4 lug 1 ground, third lug common	P-0401H03	2.25
5 lug 0 ground	P-0500H	$2.75
5 lug 1 ground	P-0501H	2.75
5 lug 1 ground, first lug common	P-0501H01	2.75
5 lug 1 ground, fifth lug common	P-0501H05	2.75
6 lug 0 ground	P-0600H	3.15
6 lug 1 ground	P-0601H	3.15
6 lug 1 ground, second lug common	P-0601H02	3.15
6 lug 2 ground	P-0602H	3.15
7 lug 1 ground	P-0701H	2.75
7 lug 2 ground	P-0702H	2.75
8 lug 2 ground	P-0802H	3.75
9 lug 1 ground	P-0901H	4.75

Locking Terminal Lugs

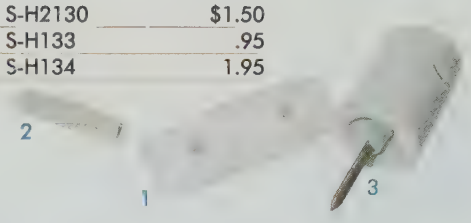
Package of 10.

#6 5/8" length	W-HHS-1412-6	$1.00
#6 5/8" length, angled	S-H112	1.00

Insulators

While Supplies Last!

Old style insulator for antenna installations, molded plastic [1]	S-H2130	$1.50
Porcelain cylindrical insulator, 3/8" x 1 1/2" long, 6-32 threads on both ends [2]	S-H133	.95
Antenna nail on knob. Glazed, insulated. Use to attach antenna to exterior of buildings, trees etc. [3]	S-H134	1.95



Insulating Cambric

S-M549 $5.60

Yellow varnished cambric .010" thick, used in switches, under terminals, in transformers, field coils, chokes etc. Dielectric strength 5,000V 9" wide roll contains 210 sq. inches.

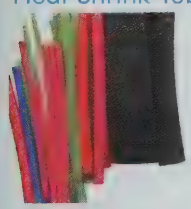
Fish Paper

S-M560 $4.95

Gray insulating paper .010" thick, used in switches, under terminals, in transformers etc. where mechanical strength is required. Dielectric strength 3,000 volts. 9" wide roll contains 250 sq. inches.

Heat Shrink Tubing Assortment

S-M14 $1.25



Assortment of 2" heat shrink in many colors and sizes. Shrinks to 50% of its original size.

Heat Shrinkable PVC Tubing

Shrinks to half its original size when heated by heat gun, soldering iron or just a match. Use for insulating terminals, connectors and wire splices. Comes in 6" lengths and quantity shown.

Orig. dia.	Qty/Bag	Part	Price
.125"	30	S-M12-1044	$4.50
.187"	27	S-M12-1046	4.50
.250"	23	S-M12-1048	4.50
Assorted	23	S-M12-1080	4.50

Braided Copper Tubing

S-W409 $1.95

Ideally suited for shielding, bonding and grounding of all types of electronic equipment. Measures 3/16" x 3'.

Old Style Spaghetti

Black fiberglass sleeving is varnished and closely resembles early style spaghetti. Available in two sizes. 10 foot minimum per size.

20 AWG	S-M436	$0.50
11 AWG	S-M401	.60

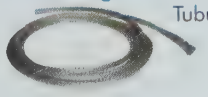
Sleeving

S-M100 $0.95

1" "expando mesh." Sold by the foot.

Shielding Braid

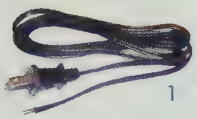
S-W411 $1.75



Tubular, 1/2" diameter. Sold by the foot.

Power Cords & Batteries

Replacement Power Cords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	AWG	Cond	Length	Part	Price
Black, SPT-1, non-polarized, tinned leads [1]	18	2	6'	S-W118	$1.95
Brown, SPT-1, polarized [2]	18	2	6'	S-W104	1.75
Brown, SPT-1, non-polarized, detachable [3]	18	2	6'	S-W105	1.50
Black, detachable, mates with P-SP2-106. Marshall® replacement [4]	18	3	8'	S-W123	3.95
Black, detachable, mates with P-SP2-106. Marshall® replacement [4]	18	3	12'	S-W124	5.95
Black, with shield [5]	18	3	6' 7"	S-W121	2.50
Black, 13A, molded three prong plug [6]	16	3	8'	S-W125	3.50
Black, 13A, molded three prong plug [6]	16	3	12'	S-W126	5.50
I.E.C. Power Cord Receptacle. Mates with power cords S-W123 & S-W124. Rated for 15A, 250V. UL listed [7]				P-SP2-106	1.50
I.E.C. Power Cord Receptacle with fuse holder. Mates with power cords S-W123 & S-W124. Rated for 15A, 250V. UL listed [8]				P-SP2-500	2.75

3

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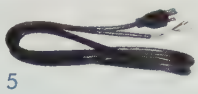
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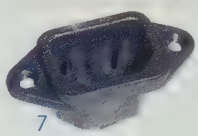
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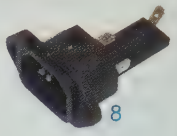
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E-Cords

Extension cords designed for use in the entertainment industry. Power Block® 3 outlet connector. All black. Very flexible and durable. Made by Electricord®.

14 AWG, 3-outlet. 6 foot ProCo E-cord	S-W206	$4.95
14 AWG, 3-outlet. 12 foot ProCo E-cord	S-W212	5.95

Strain Relief

Rubber type for standard zip cord.

For 1/4" diameter hole [1]	P-H11-402	$0.35
Two conductor (SP1) [2]	P-H11-406	.30
16/3 SJT, 7/16" cord diameter. Used in Fender® [3]	P-H1200	.35
1/4" - 19/64" wire diameter size [4]	W-HHS-939	.25

Speaker Wire Sold by the Foot

High definition oxygen-free copper wire. 112 strand, 16 gauge speaker wire. Low loss, 2 conductor with Superflex®. Extra soft PVC insulation. Sold by the foot. S-WS16 $0.95/ft

16 AWG Speaker Cable. Make your own cable! Excellines 16 AWG two conductor. Non-shielded. Sold by the foot. See page 50 for compatible plugs. P-HSG-FT .48/ft

Old Style Speaker Wire

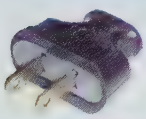
Brown cloth-covered two-conductor tinsel wire, as found on 20's vintage horn and cone-type speakers. Sold by the foot, terminals not included. P-W413 $1.75

Braided Covered Power Cord

Brown 2 conductor 18 gauge, stranded power cord, similar to woven cloth covered cords in early AC radios.

20 feet	S-W102-20	$6.95
50 feet	S-W102-50	15.95
250 foot spool	S-W102-250	69.00
Gold *sold by the foot*	S-W102G	.75
Large dimension braid covered power similar to above but with larger overall physical dimension to more accurately represent type of wire used on early AC radios. Sold by the foot.	S-W103	2.95

AC Cord Plug



P-SP2-104 $2.25

UL rated. Flat, brown phenolic plug, 1½" wide x 1 3/16" deep.

Battery Accessories

S-H155 $0.45

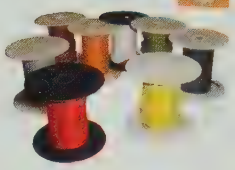
9 Volt Clips. Package of 3. Clips can also be used on S-Z415 and S-Z416.

Eveready Batteries

The following Eveready batteries are useful for powering portable radios like the Zenith Transoceanic, subminiature tube radios, and early transistor radios. The S-Z415 is used in our K-436 Regenerative Radio Kit.

Number	Volts	Size		
412	22.5	1.05" x 0.63" x 1.80"	S-Z412	$6.95
415	45	1.05" x 0.63" x 3.69"	S-Z415	13.95
455	45	2.66" x 1.00" x 3.69"	S-Z455	19.95
416	67.5	1.25" x 0.94" x 3.38"	S-Z416	19.95
467	67.5	2.81" x 1.38" x 3.71"	S-Z467	29.95

Cloth Covered Hook-Up Wire



#20 stranded copper wire covered with cotton braid, closely resembles wire used in the late 20's and 30's. Available in 8 colors, on 50' spools.

Color	Part	Price	Color	Part	Price
Orange	S-W703	$6.95	Green	S-W707	$6.95
Black	S-W704	6.95	Yellow	S-W708	6.95
Red	S-W705	6.95	White	S-W709	6.95
Blue	S-W706	6.95	Brown	S-W710	6.95

Screaming Deal! Buy all colors of Cloth Covered Hook-Up Wire at the same time and receive over 10% off over buying each one individually. S-WHOOKUP-SD $49.95

Cotton Covered Multi-Conductor Cable

S-W711 $2.95

8 conductor 20 gauge stranded wire with brown cotton braid over all. Replaces 1920's Atwater Kent battery cable etc. Sold by the foot.

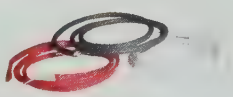
20 AWG Solid Core Wire

#20 solid core copper wire covered with cotton braid, closely resembles wire used in the late 20's and 30's. Available in 8 colors, on 50' spools.

Color	Part	Price	Color	Part	Price
Orange	S-W803	$6.95	Green	S-W807	$6.95
Black	S-W804	6.95	Yellow	S-W808	6.95
Red	S-W805	6.95	White	S-W809	6.95
Blue	S-W806	6.95	Brown	S-W810	6.95

Screaming Deal! Buy all colors of 20 AWG wire at the same time and receive over 10% off over buying each one individually. S-WSOLID20-SD $49.95

"Push-Back" Cloth Covered Wire



Solid Core push-back hook-up wire. 22 AWG. 20 foot minimum. Sold by the foot.

Black	S-W712	$0.25
Red	S-W712R	.25
White	S-W712W	.25

600 Volt Stranded Tinned Hook-up Wire

Copper wire. UL style 1015, rated to 105°C. Perfect for new projects or rewiring of any electrical equipment. 22 gauge on 50 foot spools.

Black	S-W22B	$3.75
White	S-W22W	3.75
Green	S-W22G	3.75
Red	S-W22R	3.75
Yellow	S-W22Y	3.75
Orange	S-W22O	3.75

Magnet Wire

Insulated with two coats of enamel. Perfect for winding coils and transformers.

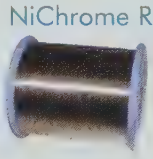
21 gauge, 100 foot spool	S-WL3-610	$5.50
22 gauge, 100 foot spool	S-WL3-611	5.50
24 gauge, 200 foot spool	S-WL3-612	5.50
28 gauge, 200 foot spool	S-WL3-614	4.95
32 gauge, 400 foot spool	S-WL3-616	4.95
36 gauge, 750 foot spool	S-W318	4.95
40 gauge, 750 foot spool	S-W320	4.95
42 gauge, 750 foot spool	S-W319	4.95

Stranded Aerial Wire

S-W32-146 $6.95

Stranded 16 gauge copper wire, not insulated. For outside antennas. 50 foot roll.

NiChrome Resistance Wire



Use for making wirewound resistors, small heater elements, or repairing filament potentiometers. Available in four sizes. 20 foot minimum.

Ohms/ft.	Gauge	Part	Price/ft.
2.57	26	S-W500	$0.19
4.09	28	S-W501	.19
6.50	30	S-W502	.18
20.80	35	S-W503	.18

Celanese Covered Wire

White celanese covered. Resembles early cotton covered wire. May be color dyed. Litz wire ideal for loop antennas. Cotton wrap. 20 foot minimum per type.

#24 magnet wire	S-W203	$0.08/ft
#26 magnet wire	S-W107	.07/ft
54/38 Strand-Litz Wire	S-W106	.12/ft

Bus Wire

S-W428 $4.25

#22 solid tinned copper bus wire. Approximately 100' per spool.

Early Style Square Bus Wire

S-W140 $2.95

#12 AWG Square tinned copper, per 10 feet.

All CAIG products are priced more than 10% below Retail!

DeoxIT

DeoxIT Power Booster Spray, 5% solution, 200 ml. Contact cleaner, conductivity enhancer & lubricant. Dissolves oxidation & corrosion; reseals surfaces on metal contacts. Improves connector performance/reliability.
S-CD5S-6* [1] $9.95

Pump Spray: 50% concentrate solution. Non-flammable. 150ml. May be shipped by air and to Canada! S-CDP5S-6 [13] 12.40

Precision Pen, 100% solution, 7.4 ml. S-CD100P [2] 14.45

*** Cannot be shipped by air or to Canada**

R5 Power Booster [3]
S-CR5PS-6 $23.10

A unique liquid that improves the flow of electricity on metal surfaces. The best solution for improving and preserving the performance of electrical connections. R5 Power Booster contains active ingredients that dissolve contamination on the metal surfaces, fill in the minute gaps in the metal surfaces and provide long lasting protection from future contamination. Provides a light (5%) coating of R5 Power Booster liquid. 5 oz (200ml) non-flammable, adjustable valve.

PreservIT [4]
S-CP5S-6 $9.75

PreservIT Spray, 5% solution, 200 ml. Oxidation deterrent, contact lubricant & protectant for pre-cleaned or newly manufactured metal/electrical connections. Excellent for harsh environments. Improves connector performance/reliability.

CaiKleen RBR [5]
S-CRBR100L-2 $9.85

Rubber Cleaner & Rejuvenator Liquid, Dropper Bottle, 59 ml. For rollers/platens. Ideal for computers, fax machines, printers, copiers, & other office equipment. Outstanding for auto detailing service centers. Low odor formula.

CaiLube MCL [6]
S-CMCL $9.95

CaiLube MCL Precision Spray, 5% solution, 200 ml. Superior cleaning & lubrication for conductive plastics & carbon-based controls (faders, switches, potentiometers, & other sliding surfaces). Use DeoxIT Power Booster on metal surfaces.

ProGold

ProGold Spray, 5% solution, 200 ml. Contact cleaner, conditioner, lubricant & protectant for PLATED metal surfaces. Promotes optimal signal quality, prevents fretting corrosion & wear. Improves connector performance/reliability.
S-CG5S-6 [14] $15.98

ProGold Precision Pen, 100% solution, 7.4 ml. Contact cleaner, conditioner, lubricant & protectant for PLATED metal surfaces. Promotes optimal signal quality, prevents fretting corrosion & wear. Improves connector performance/reliability. S-CG100P [8] 18.65

ProGold GX5 [9]
S-CGX5S-6 $26.65

Extended temperature, longer-lasting formula, -45°C to 400°C. Field and lab tested to provide ten years of protection and service life without deterioration, gumming or varnishing. ProGold GxL provides superior lubrication, anti-tarnishing, conductivity enhancing and protection to metallic surfaces. Ideal for vacuum tube pins and sockets! Provides a light (5%) coating of ProGold liquid. 5 oz (225ml), adjustable valve. Non-flammable, fast evaporating carrier solvent that is safe on plastics.

FreezALL [10]
S-CFZ7PS-10 $11.50

FreezALL Spray, 100% HFC134a, 200ml. Locates intermittent connections & cools circuits to -54 C.

CircuitWriter [11]
S-CCW100P $12.40

CircuitWriter Conductive Ink Pen, silver based solution, 7 ml. Make instant traces on epoxy, glass, plastic, metal; repair defective traces/circuit boards/rear-window heater traces; make jumpers/prototype circuits; shield electronics.

Cleaning Brushes [12]
S-CAB-6 $4.40

Nylon brush for cleaning contacts and connectors. Ideal for phone and phono (RCA), XLR, coax connectors and patchbays. Package of 6.

Jif Action

Cleans and provides long lasting protection for electronic controls, switches, relays, potentiometers and other components. Stops noise and squeaks. Contains silicone additive.

6 oz [15]	S-C19-634	$4.45
16 oz [1]	S-C19-636	7.25

This item is great for antique radios!

Big Bath [2]

All purpose degreaser and cleaner for electrical contacts, switches, pc boards and components. Evaporates instantly and leaves no residue.

12 oz	S-C19-902	$8.95
22 oz	S-C19-903	11.95

De-Ox-Id [3]

S-C19-1906 $6.95

Solventless light oil based contact treatment compound counteracts oxidation. 4 oz.

Flux Remover [4]

S-C11109 $8.95

Removes oil, grease and soldering fluxes. Very effective for cleaning activated fluxes and other ionic contaminants. Product may affect polystyrene, polycarbonate and acrylic parts, test for compatibility. 12 oz.

Anti-Static Airjet [5]

S-C19-8475SF $8.95

Clean hard to reach places. Anti-static formula minimizes static buildup. Blows away dust, dirt and grit without scratching. Contains no ozone depleting chemicals. Non-flammable. 12 oz can.

White Lithium Grease [6]

S-C10-2302 $3.75

White lithium based grease lubricant. Good for use on wiping contacts and sliding parts. Will not oxidize or harden. 1¾ oz tube.

Pen Oiler [14]

S-C10-984 $3.95

High quality non-gumming instrument oil. Fine long-reaching metal tube extends and retracts. Use on timers, clocks etc. 0.5 oz

Phonolube [7]

S-C10-1223 $4.95

Light bodied grease made of polymerized oil specially developed for the lubrication of small geared mechanisms. Retains its viscosity over a wide range of temperatures. 2 oz tube.

Service Cement [8]

S-C10-302 $5.75

A quick drying waterproof clear adhesive which forms a strong vibration resistant bond. Ideal for speaker repairs and bonding semi-porous materials to each other or to metals, plastics, etc. 2 oz bottle.

Rubber-to-Metal Cement [9]

S-C10-352 $8.95

A heavy-bodied, black rubber based cement with outstanding bonding qualities to many materials such as natural and synthetic rubber, metal, wood and plastics. Dries quickly. Used to cement any rubber or flexible plastic part to cabinets, chassis or panels; also for gaskets, weather strips, etc. 2 fluid oz bottle with brush.

Tolex Adhesive 3M Super 77 [10]

S-F315 $11.95

Spray adhesive ideal for bonding tolex (or any other cloth, foil, felt, paper, etc.) to plastics, painted or unpainted metals, wood, hardboard and many other materials. Provides high coverage (over 160 sq. ft. per can), faster, more aggressive tack, longer bonding range and lower soak-in. Two spray tips are provided, one for large bonding areas and the other for smaller bonding areas. 16.5 oz aerosol can.

Tolex Glue [11]

S-F316 $15.95

Brush-on adhesive ideal for applying tolex. Cleans up with soap and water. No nasty solvents required. Does not stretch or shrink the vinyl. 1 Quart.

Rubber Revitalizer [12]

S-C220 $5.25

Removes "dead" rubber from old rubber surfaces to clean and revitalize idler wheels, belts and pinch rollers. 1 oz bottle.

Belt & Drive Non-Slip [13]

S-C10-8602 $6.75

Prevents slippage and restores proper function on belts and drive wheels in turntables and tape recorders, especially where the rubber has hardened or become slick. 2 fl. oz.

Weller Marksman Soldering Iron S-TSP40L $17.95

- Input Voltage: 120
- Power Consumption: 40 watts
- Tip Temperature: 900ºF
- Heating Element Type: Nichrome Wound, fiberglass and ceramic insulated
- On/Off indicator light
- Includes 1/4" chisel tip (S-TMT10)

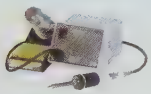
Weller Soldering Iron S-TWP35 $43.95

- Input Voltage: 120
- Power Consumption: 35 watts
- Tip Temperature: 850ºF
- Heating Element Type: Nichrome wound, fiberglass and ceramic insulated
- Lightweight handle with cushion grip for ease of use and comfort
- Comes with 1/8" screwdriver tip (S-TST3)
- Stand (S-TPH60) sold separately (see below)
- Three wire grounded power cord for your safety

Weller Variable Power Soldering Station S-TWLC100 $49.95

- Input Voltage: 120
- Output Voltage: 120
- Power Consumption: 5 - 40 watts
- Temperature Range: 900° F max
- On/Off switch with "power-on" indicator light
- Variable control produces 5 to 40 watts
- Natural sponge tip cleaning pad
- Ideal for hobbyist, DIY'ers and students
- Includes 1/8" screwdriver tip (S-TST3)

Weller Controlled Output Professional Soldering Station S-TWTCPT $139.95



- Input voltage: 120
- Output voltage: 24
- Power Consumption: 60W
- Unique closed loop method of controlling maximum tip temperature , protects temperature sensitive components
- A ferromagnetic temperature sensor in the tip controls tip temperature , no adjustments are necessary
- Lighted switch
- Tips available in 700ºF and 800ºF ranges
- Tips Determine Temperature (1/16" Screwdriver 700ºF tip *S-TPTA7*)

Weller/Ungar Heat Gun, 1000 Watts S-T1095 $54.95

Dual temperature, heat gun is ideal for:

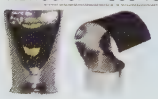
- Applying heat shrink products
- Curing epoxy and softening adhesives
- Softening and molding plastics
- Heating liquids and stripping paint
- Drying, thawing frozen pipes

Features:

- Dual temperature - 1200ºF (1000w) and 790ºF (400w)
- 3 way switch: Hi - Off - Low
- 3 wire grounded plug, 6' power cord

Accessories for S-T1095

Reducer - use for concentrating heat	S-T1080	$6.95
Reflector - use for heat shrink tubing/caps	S-T1082	6.95



Weller Manual Desoldering Pump S-T7874B $21.25

One hand operation with spring loaded piston provides ESD safe solder removing vacuum, Self cleaning, non clogging, static free replaceable tip

Weller Bulb Solder Off S-T7805 $9.95

Helps remove solder. Old style solder sucker.

Replacement Tips for S-TWTCPT

Tips are solid copper plated with iron all over, and nickel and chromium behind the working surface. Designed to provide maximum heat transfer from the heater to the tip.

1/16" Screwdriver tip, 700ºF	S-TPTA7	$6.25
1/16" Screwdriver tip, 800ºF	S-TPTA8	6.25
Conical tip, 700ºF	S-TPTP7	6.25

Replacement Tips for S-TWLC100 and S-TWP35

Tips are solid copper with iron all over, and nickel and chromium behind the working surface. Designed to provide maximum heat transfer from the heater to the tip.

1/16" Screwdriver tip	S-TST1	$5.75
1/8" Screwdriver tip	S-TST3	5.75
Conical tip	S-TST7	5.75

Replacement Tips for S-T7874B S-T7875B $4.95

Weller Soldering Iron Stand S-TPH60 $22.95

Kester 44 Solder

60/40 rosin core solder. Standard .050" diameter

10 foot length	S-TH3-390	$1.95
1 lb spool	S-T9000	11.95

Fine line .031" diameter

15 foot length	S-TH3-391	2.75
1 lb spool	S-T9001	11.95

Desoldering Braid

Made of finely-woven copper braid impregnated with pure rosin flux, for high efficiency and maximum solder holding capacity. 5' dispenser spool.

.08" wide	S-T22-405	$3.95
.125" wide	S-T503	4.95

Heat Sink S-T156 $1.95

Absorb heat during soldering/desoldering sensitive parts. 2 5/8" long, high carbon steel, hardened and with PVC coated handle.

Solder Aid Tool S-T9075 $4.95

Stainless steel, solder will not stick. 6 1/2" long with plastic handle. Forked tip on one end, straight reamer on the other.

General Electric Tube Pin Straightener S-T8655 $10.95

7 and 9 pin straightener, mounts on work bench. Limited quantity.

Greenlee Chassis Punches

Round hole punches for use in mild steel (up to 10 gauge), aluminum, fiberglass and plastic. Make professional chassis punches on your projects.

Absolutely no returns unless punch is defective!

1/2"	S-T703012	$34.95
5/8"	S-T703058	38.95
11/16"	S-T7031116	39.95
3/4"	S-T703034	41.95
15/16"	S-T7031516	42.95
1"	S-T703100	43.95
1 1/8"	S-T703118	48.95
1 1/4"	S-T703114	54.95

Greenlee Replacement Draw Studs

For 1/2" and 5/8" punches. Stud is 1/4" x 1 3/8"	S-T703BOLT-SM	8.95
For 11/16", 3/4", 15/16", 1", 1 1/8" and 1 1/4" punches. Stud is 3/8" x 1 5/8" and includes bearing	S-T703BOLT-LG	19.95

Xcelite Precision Electronic Screwdriver Set

S-TXP600 $24.95

Set contains one each of: 1.5 mm x 60 mm slotted tip screwdriver, 2.0 mm x 60 mm slotted tip screwdriver, 2.5 mm x 60 mm slotted tip screwdriver, 3.0 mm x 60 mm slotted tip screwdriver, #0 point Phillips tip screwdriver and #00 point Phillips tip screwdriver. **Features:** Chrome-molybdenum steel blades with black oxide tips for prolonged life. No-roll handles are designed to keep drivers from rolling off uneven surfaces. Storage case included.

Deluxe Nibbling Tool

S-T806 $9.95

Cuts steel up to 18 gauge, as well as copper, brass, aluminum and non-brittle plastics up to 1/16". Cuts any size/shape hole from the edge or from 3/8" inside hole. Spring operated.

Xcelite 4" Relieved Tapered Head Cutters

S-TMS543J $15.95

Diagonal cutting pliers with relieved tapered head flush cutter that allows use between closely spaced components. Green cushion grips.

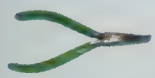
Xcelite 5" General Purpose Shearcutters

S-T170M $5.50

Low profile, general purpose cutter that flush-cuts soft wire up to 20 AWG (0.8 mm). Features superior blade bypass shear cutting action and shock absorbing grips.

Xcelite 5" 60° Curved Needle Nose Pliers

S-TCN255 $18.95



Thin tip and smooth jaws with green cushion grips.

Xcelite 5.5" Serrated Jaw Pliers

S-T378M $9.50

Thin profile long reach pliers for access into tight spaces, Lightweight for maximum comfort with light blue grips.

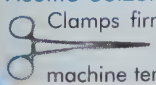
Xcelite 6" Long Needle Nose Pliers

S-TNN7776 $16.95

Extra long nose with serrated jaws and green cushion grips.

Xcelite Seizer Forceps

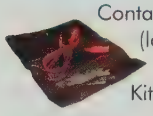
S-T42H $6.95



Clamps firmly to hold wires for soldering. Acts as a heat sink and retrieves small parts from hard to reach places. Precision machine tempered stainless steel. Serrated jaws.

Test Lead Kit (Mil Spec)

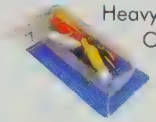
S-Z5R542 $14.95



Contains: Two alligator clips, two spade lugs, two pin jacks (long), two pin jacks (short), two probe tips, two tip insulators and two universal test jacks. All have threaded male ends. Kit also contains two 5" leads with threaded female ends. All components are rolled up in a convenient pouch. Comes sealed in foil military packaging. The ultimate set of test leads!

Jumper Wire Set

S-ZJ4-655 $6.25



Heavy duty test leads 22" long with insulated alligator clips. Contains one each of black, red, white, green and yellow jumpers. Set of five.

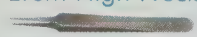
Resistance Wheel

S-Z20-104 $21.95

Select resistor for best circuit operation. Uses 1/4 watt 5% resistors covering 5 ohms to 1 megaohm. Includes insulated alligator clips.

Erem High Precision 4.5" Tweezers

S-T5SA $3.35



Stainless Steel and anti-magnetic with super fine tip.

Erem High Precision Curved 4.75" Tweezers

S-T7SA $3.35

Curved for easy manipulation in confined areas with precision point. Stainless Steel.

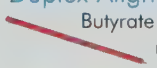
Double End Hex Tool

Molded from Derlin, 5 3/32" long. One end is 7/32" hex with the other being 3/8" hex.

	S-T9091	$1.75
Same as above but with a .100" hex	S-T702	1.95

Duplex Aligner

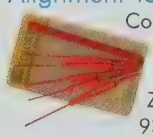
S-T8276 $2.25



Butyrate shaft 6 1/8" long with 1/8" wide steel tips. Tip on one end recessed.

Alignment Tool Kit

S-T8454 $6.95



Contains five different tools for all standard adjustments. Includes "Extend-It" for long reaches. Tools are Delrin packaged in pocket-saver pouch. Included tools: 8282 Zenith type, 8606 Hex wrench, 9091 Hex core tool and a 9304 double end tool.

Nylon Alignment Tool Kit

S-T9304 $1.25

Assorted hex and flat tools for alignment work.

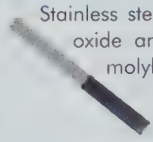
Alignment Tool Kit, CB

S-T18-530 $10.95

Contains 5009 Duplex no-metal screwdriver, 5097 K-tran tool, 8271 core aligner, 8282 Zenith alignment tool, 9091 hex iron core tool, 9440 transistor tool, 8276 Duplex aligner and 9304 double end tool.

Contact Burnishing Tool

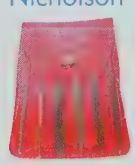
S-T9338 $1.95



Stainless steel strip, microscored to an ultra-fine file surface. Remove oxide and corrosion on contacts made of platinum, palladium, molybdenum, gold, tungsten and silver.

Nicholson Hobby Assorted File Set

S-T42030 $27.95



- Selection of 6 miniature files with fine cut for intricate work
- Includes vinyl case
- Ideal for handicrafts and hobbies

Panel Meters

80mm wide x 64 mm high (~3⅛" x 2½") white face. Fits in 2⅜" round panel cut out. 2½% accuracy.

0-100 uA DC	S-PMD100UA	$10.95
0-1 mA DC	S-PMD1MA	10.95
0-100 mA DC	S-PMD100MA	10.95
0-1 A DC	S-PMD1A	7.95
0-150 V AC	S-PMA150V	10.95

RF Signal Generator

S-MRFGEN $159.95

Compact solid state RF signal generator designed for the hobbyist, service bench and technical instruction. The generator is most suited for checking and aligning the IF circuit and tuners in AM, FM, and TVs. 100KHz to 150MHz in 6 bands and up to 450MHz on third harmonics. 5.9" high x 9.8" wide x 5.1" deep. 8 lbs.

Features:
- Wide frequency range - 100KHz to 150MHz
- With 1 KHz oscillator purpose of modulation
- High stability
- Output control - 0dB/-20dB/-40dB and fine adjuster
- Frequency accuracy - ± 5%
- RF output - 100mV rms appx (up to 35MHz unloaded)
- Output control - High-low switch, fine adjust
- Audio output 1KHz min., 2V rms
- Modulation - Internal - 1KHz (AM) 30% appx.
- External - 50Hz ~ 20KHZ at < 1V rms input

Audio Generator

S-MAFGEN $159.95

The oscillation frequency range of this audio generator is between voice frequency band and super voice frequency band. Its main function is to measure the characteristics of an audio circuit. Square and sine wave. 10K ohm input impedance, 10V rms maximum input voltage. 600 ohm output impedance. Equipped with synchronized input terminals, enabling the high power output signals to be accurately controlled by small signals. Comes with test lead and ground lead. 5.9" high x 9.8" wide x 5.1" deep. 8 lbs.

Features:
- High frequency stability: within ± 2Hz
- Frequency range - 10Hz ~ 1MHz, 5 decade bands
- Accuracy - 10Hz ~ 1MHz - ±5% + 2Hz
- Output control - 0dB/-20dB/-40dB and fine adjuster 100Hz ~ 100KHz ±3% + 3Hz
- Output Voltage Floating: within ±1.5dB

Sine Wave Output
- Range - 10Hz ~ 1MHz
- Output voltage- 8V rms max.
- Output distortion- < 0.05% - 500Hz ~ 50KHz < 0.5% - 50Hz 500KHz

Square Wave Output
10Hz ~ 100KHz
15V p-p

Signal Tracer/Injector

S-MSIGTR $139.95

Handy, easy-to-operate versatile instrument with dual power source (9V battery or AC adapter). Two red LEDs on front panel indicate the mode of operation. Ideal for servicing on TV, AM and audio circuitry, plus checking of speakers, microphones and pick-ups. 100 μA meter, 2¼" speaker 7.8" W x 5.5" H x 3.9" D. 3 lbs.

Features: Tracer Portion
- Gain - Max. 60dB at 1KHz
- Attenuation: 0-20-40-60 dB
- Input impedance: 100K ohms
- RF output: 100mV rms appx (up to 35MHz unloaded)
- Output impedance: Output - 600 ohms (unbalanced) - External speaker - 8 ohms

Features: Injector Portion
- Frequency: appx. 1KHz square wave form
- Output level: 4.5V p-p max., 0 - 4.5 continuously variable

3 lbs

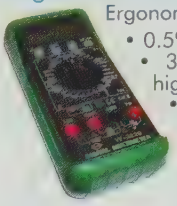
General Purpose VOM with Multifunction

S-Z370 $19.95

Intermagnetic version to prevent interference from magnetic fields. Double protection of diode and fuse, transistor hFE test function. DCV: 0.25V, 0.5V, 2.5V, 10V, 50V, 250V, 1000V. ACV: 10V, 50V, 250V, 500V, 1000V. ACA: 50μA, 2.5mA, 25mA, 250mA, 10A. Ohms: x1, x10, x1k, x10k. Dimensions: 148mm x 98mm x 41mm

Digital Multimeter

S-Z3220 $49.95

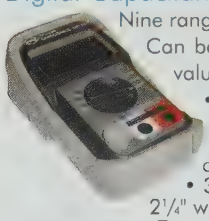


Ergonomically Designed. Uses one 9V battery.
- 0.5% basic DC accuracy
- 3½ digit LCD, 0.625" high
- 1.5" x 3" x 7.5" (w/o case)
- capacitance to 20 mFD
- frequency to 10 MHz
- 10 A (AC 0r DC)
- h_{FE} and diode test
- audible continuity test
- 10M ohm input resistance
- overload protection
- polarity indicator
- over range indicator
- low battery indicator
- tilt stand and case

1.6 lbs

Digital Capacitance Meter

S-Z150 $59.95



Nine ranges give precision readings from .1pF to 20,000mFD. Can be used to check virtually all capacitors for tolerance value, selecting matched sets, etc.
- 0.1 pf to 20,000 mF, 9 ranges
- 0.5% basic accuracy
- 3½ digit LCD, 1" h x 2¼" w
- Zero adjustment
- Input protected
- Low battery indicator
- Over range indicator
- Tilt stand
- 1.5" x 2.8" x 6"
- Includes, case, leads, spare fuse and instructions.

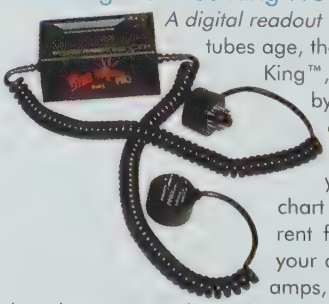
1.1 lbs

Alessandro Bias and Matching Meter

S-TBIASMETER $135.00

Lets you regain control over your amp's sonic output. It's remarkable, quick and easy to use, and it works with 6L6, 6V6, 5881, EL34, 7581, 7591, 7027, KT66, KT77 and KT88 tubes; or any octal tube with the Plate on pin 3. Install the power tubes into the amp "through" the bias sockets, turn the amp "on," then check and adjust the bias. It's fast, accurate and easy!

Bias King™ & Bias King Pro™



A digital readout for real world analog measurements. As tubes age, their bias point will shift. By using the Bias King™, you can maintain the sound you want by periodically adjusting the bias on your amp. This will keep your tubes in top shape throughout their life and will keep your amp sounding its best. Use the chart provided to find out what range of current flow is acceptable for the tube type in your amp. It works on most octal socket tube amps, and requires no power source other than the amp it is plugged in to. It can be used to "match" tubes into pairs. Two models are available:

Bias King™ Features one tube socket enabling you to check the bias of your tubes one tube at a time. S-TBKING $119.95

Bias King Pro™ Two sockets allow you to switch between two tube readouts without having to unplug tubes. S-TBKINGPRO 199.95

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Audio

An Approach to Audio Frequency Amplifier Design

B-679 **$19.95**

First published in 1957 by the Valves and Electronics Department of General Electric Company of England, this book covers the essential details and circuit diagrams of a wide range of audio frequency amplifiers from a 5 watt ultra-linear to an 1100 watt Class AB2 amplifier. All designs are based on vacuum tubes. Full parts list accompanies each schematic. 126 pgs, 0.6 lb 6" x 9"

Audio Measurements

By Norman H. Crowhurst

B-814 **$12.95**

This book begins with measurement techniques and follows with a full discussion of all manner of test equipment. Although it deals with the equipment of the day, most based on vacuum tubes, much of that equipment is still available. Fully indexed, the book is a comprehensive and informative volume on determining the quality and performance level of almost any piece of audio equipment. 223 pgs, 1 lb 5.25" x 8.25"

Audio Reality

By Bruce Rozenblit

B-818 **$29.95**

There are 6 projects in this book that you can build. Contains complete schematics, parts lists and circuit explanations. All design techniques are revealed. In addition the author shares tips and procedures for working with sheet metal and wiring. Projects include: the patented Transcendent OTL in both 25 and 80 watt version, the grounded grid preamp, the super compact 150 watt amp, the cathode follower single-ended amp, and a new phono preamp design. This book has sections on conductors, connectors, speaker cables, damping systems, feedback, vacuum tubes and more. 128 pgs, 1 lb 8.5" x 11"

Beginner's Guide to Audio Design

By Bruce Rozenblit

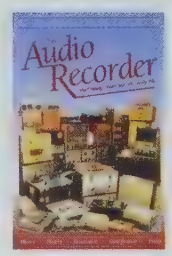
B-761 **$24.95**

Are you interested in tube audio but don't know where to start, or are you already using tubes but don't know what's going on in the circuit? Rozenblit describes with simple clear explanations what a tube is, how it works, how to read characteristic curves and understand specifications. He then discusses one stage amplifiers, gain circuits, negative feedback, power supplies as well as a tour of amplifier parts of all types. 132 pgs, 1.0 lb 8.5" x 11"

Evolution of the Audio Recorder

By Phil van Praag

B-759 **$39.95**



Finally, a comprehensive guide to the audio recorder, this book explains the mysteries and tracks the evolution of the audio recorder. Provides repair and restoration guidelines, buying tips, identification criteria and pricing guidelines. Covers over 125 brand names, with over 500 photos and illustrations. The definitive guide to vintage wire and tape recorders. 500 pgs, 1.1 lb 5.5" x 8.5"

The LP is Back!

B-823 **$12.95**

From the pages of *Audio Amateur* magazine and other sources, absolutely everything the serious LP music collector needs to get the most out of both vintage records and the highest quality new pressings. Articles cover: Cleaning discs; how to build a cleaning machine; calibrating and maintaining your tonearm and cartridge; equipment which will improve the quality of long play record listening. Collected from the high point of this old-new again technology, *The LP is Back!* brings a wealth of information to help you keep your equipment in top form and help you understand and appreciate the best in new products available from cartridges to turntables. 160 pgs, 1 lb 8" x 10.5"

Mullard Circuits for Audio Amplifiers

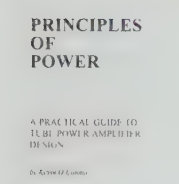
B-655 $16.95

A reprint of a 1959 publication of Mullard Ltd., detailing high-quality circuits for audio amplifiers, pre-amplifiers and other stereophonic reproduction equipment. These designs were originated by Mullard engineers at the Mullard Applications Research Laboratory, and originally appeared in various magazine articles with notes on construction and assembly. 136 pgs, 1.0 lb 8" x 10"

Power Amp Projects: *26 Articles on Power Amplifier Projects Appearing in Audio Amateur Magazine from 1970-1989*

B-754 $19.95

Re-printed articles on amplifiers for the home (both tube and solid state), amplifiers for a car and even an electrostatic speaker system. Original designs as well as upgrades to older equipment. Article authors include Roger Sanders, Nelson Pass, Reg Williams, Erno Borbely and more. Altogether this book offers designs from authors from six countries to fit almost any need for the resourceful amateur who prefers the pleasure of building his or her own. 201 pgs, 1.1 lbs 8.5" x 11"

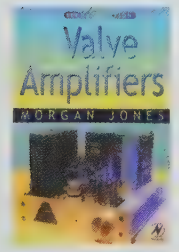


Principles of Power- *A Practical Guide to Tube Power Amplifier Design*

By Kevin O'Connor

B-726 $39.95

Offers a simplified method for designing tube power amps for audio. Tube operation is explained, as are circuit principles. Class-A or B, cathode, fixed bias, and push-pull and single-ended designs are covered, as are many front-end circuits. Includes designs using off-the-shelf transformers and current production tubes. Power outputs of 15 to 400W are depicted using pentodes and true triodes. Also, covers power supplies, selected tube data, and information on Hammond and Plitron transformers. 210 schematics. 221 pgs, 1.7 lbs 9" x 11"

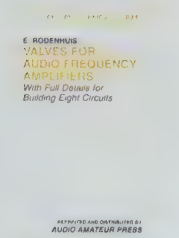


Valves for Audio Frequency Amplifiers *With Details for Building Eight Circuits*

By Morgan Jones

B-838 $54.95

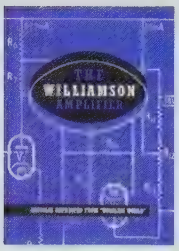
Builds on the strength of the first edition; do-it yourself basics, circuit analysis, theory, design principles, construction techniques, etc. This expanded edition has new sections on output transformer problems and heater regulators, and three new projects, including a low-noise singled-ended LP stage. 488 pgs, 2 lbs 6.25" x 9.25"



Valves for Audio Frequency Amplifiers *With Details for Building Eight Circuits*

B-779 $16.95

Reprinted from the Philips Technical Library, by Audio Amateur Press. Philips, one of the world's oldest tube manufacturers, offered this manual for enthusiast in 1954. It's a practical volume for building quality audio amplifiers. Topics include; using the operating data provided, feedback, tone control, the output transformer, amplifier input circuits, microphone, gramophone pickups, & loud-speakers. There are pointers to keep control of hum, noise, interference and heat to avoid noisy and destructive operation. 144 pgs, 0.5 lbs 5.75" x 8"



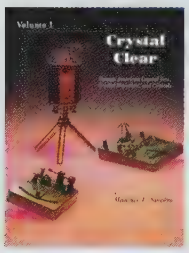
The Williamson Amplifier

By D.T.N. Williamson

B-560 $5.95

In 1947 Williamson began the high fidelity movement with his power amplifier, using high quality push/pull output tubes, a special output transformer and a highly filtered power supply. In the mid–1950's Wireless World published his articles on amplifier, pre-amp and tuner design. This reprint contains data on winding your own transformers, chassis layout diagrams and practical advice on building amplifiers. 37 pgs, 0.3 lb 7.25" x 10"

Crystal Sets



Crystal Clear Vol. 1 *Vintage American Crystal Sets, Crystal Detectors and Crystals*

By Maurice L. Sievers

B-568 $29.95

A comprehensive guide to crystal sets, detectors and crystals produced in the United States from 1920 to 1955. Lists over 500 crystal sets and 330 detectors made by over 400 different companies. Includes over 400 photos of early sets, plus hundreds of advertisements. 282 pgs, 2.2 lbs 8.5" x 11"

Crystal Clear, Volume 2 *Vintage American Crystal Sets, Crystal Detectors and Crystals*

By Maurice L. Sievers

B-698 $24.95

A companion to Volume 1. Includes many ads, illustrations and details which would not fit in Volume 1. In addition to many entirely new listings, missing details and a few corrections to listings in Volume 1 are included. 244 pgs, 1.9 lbs 8.5" x 11"

Crystal Radio Bonanza NEW!

B-905 $19.95

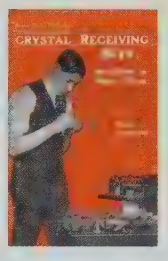
Volumes 9, 10 & 11 of the Xtal Set Society Newsletter, 18 issues from January 1999-November 2001. Over 20 complete projects with detailed instructions along with Q&A. Also contains reprints from old magazines. 226 pages, 8.5" x 11" 244 pgs, 1.9 lbs 8.5" x 11"

Crystal Receiving Sets and How to Make Them

Edited by Bernard E. Jones

B-860 $10.95

Deals with the making of a number of crystal sets representative of those in present-day use. Compiled from the pages of "Amateur Wireless," the well known weekly journal for wireless amateurs. 133 pgs, 1 lb 5.5" x 8.5"



Crystal Set Building and More *The Xtal Set Society Newsletter, Volumes 6 & 7*

Edited by Rebecca Hewes

B-797 $15.95

Crystal Set Radios? Yes, that's right. Over ninety years since their invention, Xtal sets are still capturing people's attention. Every other month, the Xtal Set Society publishes a newsletter with projects and articles from members. This compilation contains all issues from January 1996 through November 1997. Focus is on simple old-time, elegant radio circuits you can build from scratch, with some circuits and one tubers. 168 pgs, 0.5 lb 6" x 9"

The Crystal Set Handbook

By Philip N. Anderson

B-673 $11.95

A practical "how-to" book of crystal radio construction. Contains a simple oat box project, formulas for coil inductance and coil Q, a procedure for measuring coil capacitance and theory for L-C circuit matching. 130 pgs, 0.5 lb 5.25" x 8.25"

Crystal Set Loopers, A 3 Tuber & More, Volume 8

Edited By The Xtal Set Society

B-819 $15.95

The biggest and best volume yet of the Society Newsletter. Has complete directions for building 5 crystal radios, a 3 tube radio and a homebrew variocoupler. Learn about biasing effects on diode performance and crystal detector experiments. Discover crystal set secrets by reading letters from members all over the world. This book continues to focus on simple, old-time, elegant radio circuits. Includes projects you can build, schematics, radio secrets and theory articles. Build a Short-wave looper, Antenna Tuner/AM trap, a Crystal Set from a deodorant stick and more. 128 pgs, 1 lb 6" x 9"

Books: Crystal Sets, Guitar & Guitar Amps

The FM Crystal Set Project

By Phil Anderson, WØXI

B-902 $9.95

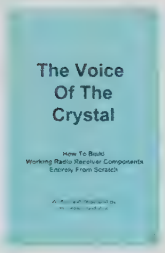
An FM crystal set is not a normal thing! FM radio didn't even exist until the mid-1940s. By then tube sets were available and economic conditions had improved. So, it's doubtful that more than a handful of FM crystal sets were attempted. I first thought about and wrote an article on trying an FM crystal set in the November 1992 Newsletter. Ed Richley , a society member, picked up the challenge and reported on a quadrature no-amplification design, "An FM Xtal Set", in Volume 6, No. 1 and No. 2. A couple of months ago I was browsing through my old book pile and ran across Traveling-Wave Engineering, by R. K. Moore. In his pages I rediscovered coaxial resonators. Coaxial resonators can achieve very narrow selectivity (and very high Q). Super selectivity is a must in order to develop enough voltage for the FM set detector to work. Slope tuning is used- tinning just above or below a station's frequency - to convert the FM signal to an AM signal. The traditional crystal set takes over then, developing audio for your headphones. This book details the project. 50 pgs, .1 lb 4" x 5.5"

Radios That Work for Free

By K.E. Edwards

B-341 $12.95

An experimenters handbook on crystal radios, this book includes instructions and theory for building many different crystal radio circuits. 140 pgs, 0.5 lb 5.5" x 8"



The Voice of the Crystal

By H. Peter Friedrichs

B-851 $14.95

How to build working radio receiver components entirely from scratch. Contains basic theory of crystal radio operation including description of simple headphones, characteristics of a good detector, capacitor characteristics, coil designs, simple tuners and antennas. 183 pgs, 0.5 lb 5.5" x 8.5"

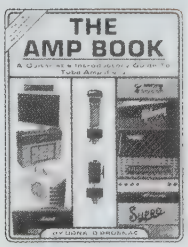
Guitars & Guitar Amps

50 Years of Fender

By Tony Bacon

B-870 $19.95

Fender is the most successful modern maker of electric guitars, and recently marked the 50th anniversary of its first instrument. This new book tells the complete year-by-year story of Fender's development from 1950 to 2000 accompanied by stunning photographs of players, instruments and memorabilia. *50 Years of Fender* is a beautiful, detailed examination of five decades of great guitars and the fine music they inspire. 128 pgs, 1.5 lbs Full Color 8.5" x 11"



The Amp Book: *A Guitarists Introductory Guide to Tube Amplifiers*

By Donald Brosnac

B-688 $11.95

Covers what an amp is, how an amp works and what to look for in an amp. Includes history of tube amps from 1932 to the present with detailed information on the evolution of amps both internally and externally. Fender, Gibson, Gretsch, Vox, Ampeg as well as others are covered. 64 pgs, 0.6 lb 8.5" x 11"

The Art of the Amplifier

By Michael Doyle

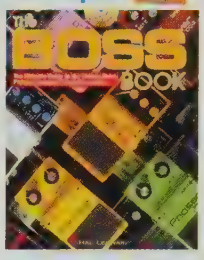
B-855 $22.95

Pays tribute to the history and beauty of generations of amplifiers with nearly 200 stunning full color photos. Coverage of Ampeg, Fender, Marshall™, Mesa Boogie, Orange, Selmer, Soldano, Vox and others.
80 pgs, 0.8 lb 9" x 12"

The BOSS Book

B-889 $19.95

The ultimate guide to the world's most popular compact effects for guitars. Included: Complete detail and story on every BOSS compact ever made, photos, design history, trivia, tricks, secrets and more, candid interviews with the BOSS founder and design engineers, essays on musical trends and famous players, a **CD ROM** featuring 72 guitar sounds with control settings and detailed equipment set-ups to take your playing to a whole new dimension. 121 pgs 1.0 lbs. 8.5" x 11"

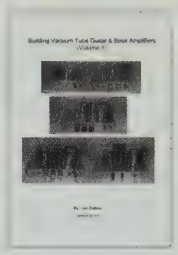


Building Vacuum Tube Guitar & Bass Amplifiers, Volume 1

By Tino Zottola

B-911 $19.95

Building your own vacuum tube guitar or bass amplifier from scratch is truly an exciting experience. This book describes the detailed construction of five vacuum tube amplifiers. The construction of these amplifiers is described in full detail with chassis drilling template, component installation, wire-by-wire hook-up and schematic. The amplifier projects included in this book are: Sonic MA1 (two tube amp, late 1950's design with a solid state rectifier), All American 4 (four tube amp, early 1960's design using common radio tubes found in "All American 5" radios made between 1947 and 1971), Champ Amp (classic replica of a 1950's Fender amp with a single ended 6V6 output tube), Deluxe Amp (classic replica of a 1940's Fender amp with push-pull 6V6 tubes), Bassman (classic replica of a 1950's Fender amp with push-pull 6L6 tubes). 120 pgs, spiral bound. 0.7 lbs. 8.5" x 11"



Complete Guide to Guitar and Amp Maintenance- *A Practical Manual for Every Guitar Player*

By Ritchie Flieger

B-701 $14.95

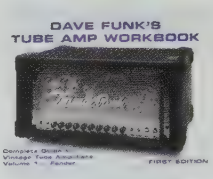
From the author of "AMPS!" comes an essential survival guide for every guitar player and amp owner. Packed with concise, clearly written tips on troubleshooting and repairs, with straightforward, step-by-step instructions using readily available tools. Contains over 150 photos. 80 pgs, 0.6 lb 9" x 12"

Dave Funk's Tube Amp Workbook- *Complete Guide to Vintage Tube Amplifiers Volume 1*

By Dave Funk

B-732 $38.95

A large, easy to read tube amp book, designed to be an invaluable reference to those working on or building their own tube amps. Learn how to approach a service job, the tools you'll need on your workbench, and how to use them. Loaded with cross-reference material, lookup tables, formulas and the information you'll need to know when your amp is working properly. 421 pgs, 2.5 lbs 11" x 8.25"



A Desktop Reference of Hip Vintage Guitar Amps

By Gerald Weber, owner of Kendrick Amplifiers

B-663 $29.95

He answers questions about vintage guitar amplifiers on topics such as biasing for output tubes and easy modifications. He includes an analysis of Fender classics such as the Tweed Champ, Tweed Deluxe, Deluxe Reverb, Super Reverb and others. Also included are schematics for Ampeg, Fender, Gibson, Hiwatt, Magnatone, Marshall™, Rickenbacker, Silvertone and Vox amps. 500 pgs, 1.5 lbs 6" x 9"

The Guitar F/X Cookbook & CD ROM

By Chris Amelar

B-888 $14.95

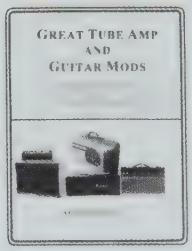
The ultimate source for guitar tricks, effects, and other unorthodox techniques. This book demonstrates and explains 45 incredible guitar sounds using common stomp boxes and a few unique techniques! Fully Illustrated. 55 pgs 0.6 lbs 9" x 12"

Great Tube Amp and Guitar Mods

By Mike Thompson

B-737 $17.95

Over 50 useful modifications for Fender and Marshall™ amps and guitars. The author lets readers in on some neat little tricks that can be done to their equipment. All modifications are simple and can be done with easy to find parts. Also includes speaker cabinet and equipment tips for the musician who wishes to customize. 150 pgs, 1.1 lbs 8.5" x 11"

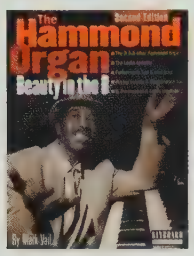


Books: Guitar & Guitar Amps

Guitar Player Repair Guide- *How to Set Up, Maintain and Repair Electrics and Acoustics*

By Dan Erlewine **B-784** **$22.95**

This revised edition is a step-by-step manual to maintaining and repairing electric or acoustic guitars and basses. Players will master the basic maintenance and set up of a guitar. An advanced crafts-person will discover this to be a valuable reference source for complex procedures such as replacing nuts and frets. This second edition incorporates new techniques and tools, plus detailed repair information for specific models. 309 pgs, 2.0 lbs 8.5" x 11"



The Hammond Organ, Beauty in the B 2nd Edition- *The Story of the B-3 and Other Great Hammond Organs, Plus the Leslie Speaker, and much more*

By Mark Vail **B-788** **$24.95**

This book celebrates the history and influence of the Hammond B-3 and its right-hand man, Leslie Speaker. It explains the tone wheel system that renders the famous Hammond sound, and reveals secrets behind the B-3's drawbars, presets, pedalboard, percussion, and other unique features. Also features "25 licks you must know," plus tips from the masters of the B-3. 239 pgs, 1.5 lbs 8.25" x 10.75"

The High Performance Marshall Handbook- *A Guide to Great Marshall Amplifier Sounds*

By John Boehnlein **B-696** **$14.95**

Includes chapters on standard amplifiers from 1962 to 1990, retubing for maximum performance, how to overdrive master volume and much more. 55 pgs, 0.5 lbs 8.5" x 11"

The History of Marshall

By Michael Doyle **B-661** **$32.95**

The definitive account of the guitar manufacturer known as the "sound of rock." Includes complete listings of every product Marshall ever made, over 100 schematics, the history of the Celestion speaker and early catalog reprints. Hundreds of photographs, including 64 color plates. 254 pgs, 2.1 lbs 9" x 12"

How to Service Your Own Tube Amp

By Tom Mitchell **B-707** **$29.95**

B-V578 W/Video Cassette **69.95**

A well organized and easy-to-understand approach to guitar amplifier repair covering basic electronics, reading schematics, understanding tubes and transformers, tube biasing and use of test equipment. Also provides 10 troubleshooting flowcharts, voltage charts for typical amplifiers, and many modifications that you can do yourself. Same as B-V578 but without video cassette. 250 pgs, 2.3 lbs 8.5" x 11". Video & Book: 2.5 lbs.

Inside Tube Amps- *The Book on Tube Amps*

By Dan Torres **B-733** **$34.95**

This book is written for musicians, not technicians. This book will help you get your personal sonic signature, and give you the knowledge to change it when your tastes change. Some approaches are new and experimental, some are very old. Looks at "standard practices" as well as tricks and techniques outside of the "perfect specs". 310 pgs, 1.9 lbs 8.5" x 11"

Tonnes of Tone

By Kevin O'Connor **B-749** **$25.00**

A collection of projects for electric guitar and bass players. Save money by building your own acoustic preamp; build a two-channel tube preamp for guitar, and more. Construct a 15W tube power amp or a true class-A solid state amp. The "experimenters power supply" is excellent for tinkering with tube circuits, containing separate AC heater, DC heater plate and bias supplies. Build a wide range tremolo circuit and an all-tube reverb unit. Circuit operation, construction, & layout guidelines are provided. Every project uses easy to find parts. 105 pgs, 1.0 lb 8.25" x 11"

The Tube Amp Book, Edition 4.1

By Aspen Pittman

B-581 $34.95

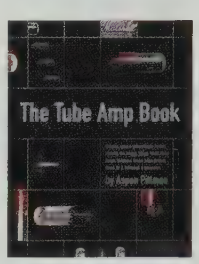
Newly revised and expanded, the 4.1q Edition contains company histories of guitar amp manufacturers. Contains 460 pgs of schematics for popular amps, tube data on commonly used audio tubes and 50 pgs of "Vintage Fantasy" color pictures of collectible guitars and amps. 765 pgs, 2.1 lbs 5.75" x 8.25"

The Tube Amp Book, Deluxe Hardcover Edition with CD-ROM

By Aspen Pittman

B-910 $49.95

Already known as the bible of tubes and tube amps, *The Tube Amp Book* is now even better. This deluxe revised edition features 40% new material including a CD-ROM of circuit diagrams plus a dramatically improved design and page layout. The book's technical tips, in-depth electronic specs and explanations, rare schematics, and full-color plates make it a must-have for the legions of tube-tone fanatics. Hardcover. 416 pgs, 6.0 lbs 9.75" x 12.5"



Tube Amp Talk for the Guitarist and Tech

By Gerald Weber

B-773 $29.95

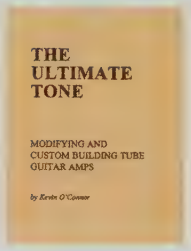
A compilation of articles written for Vintage Guitar magazine from 1993 to 1996. Includes sections with articles on servicing your guitar amp, modifications, and also includes a "Trainwreck" section full of articles written by Ken Fischer for Vintage Guitar. Foreword is written by Billy F. Gibbons. 537 pgs, 2 lbs 6" x 9"

The Ultimate Tone Volume 1- *Modifying and Custom Building Tube Guitar Amps*

By Kevin O'Connor

B-695 $55.00

Offers the technician or hobbyist information for properly implementing guitar amplifier modifications. Topics include stage setups, amplifier brand surveys, vacuum tube and power supply operation, preamp circuits and master volume, tube type comparison, and effect loops. Includes an extensive discussion of switching methods. Includes data for 17 common tube types and for two Hammond Mfg. transformer model lines. Spiral bound, 395 figures. 368 pgs, 2.5 lbs 8.5" x 11"

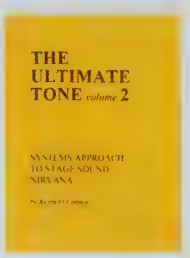


The Ultimate Tone Volume 2- *Modifying and Custom Building Tube Guitar Amps*

By Kevin O'Connor

B-772 $46.00

The achievement of great, live sound is the premise used to explore modern high-gain guitar pre-amps; proper treatment of acoustic instruments; tube vocal PA's; dynamic bass gear; all types of tube, semi, hybrid and alternative power amplifier design; power supply mods that are "toneful"; simple switching methods; speaker cabinet design; getting the most from effects loops and chains; and, modular stage monitoring systems that work! Circuits are explained so the tinkerer can build or modify guitar equipment with confidence and success. Spiral bound. 200 figures. 250 pgs, 1.9 lbs 8.5" x 11"

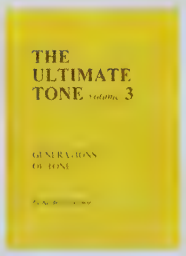


The Ultimate Tone Volume 3- *Generations of Tone*

By Kevin O'Connor

B-891 $54.95

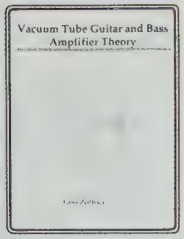
Have you ever wondered if there is a better way to build a Bassman, Champ, Plexi, AC-30, Bulldog or Portaflex. Or you wanted to build an SVT with off-the-shelf parts? How about a master-volume amp that doesn't change tone with the master setting. Everything you need to know is right here, including: proper grounding techniques, wiring methods, and mechanical considerations. Eighteen chapters cover the "iconic" amps everyone knows and loves, with schematics and layouts for each, along with the technical history of the product. Eyelet-board and chassis-mounted tube socket construction is used throughout, for easy servicing and modding. 360 pgs, spiral bound. 2.2 lbs 8.5" x 11"



The Ultimate Tone Volume 5- *Generations of Tone*

By Kevin O'Connor **B-913** **$55.00**

Every part of your system contributes to your Ultimate Tone, so every part is important. TUT5 delineates, in clear language, the function of each electronic component in a circuit, and how alterations to the value of each part affect the final sound. Gain stage voicing, interstage attenuator optimization, sustain restoration for clean and distorted tones, power amp and preamp "tone generators", simple boost pedals, amp selectors and power conditioners are all covered, with designs using off-the-shelf parts. Like TUT3, this is a "project book" presenting design challenges and solutions, with a diversity of tube and solid-state circuits for bass, guitar and keyboards. Spiral bound, 2.0 lbs 8.5" x 11" Available February 2004



Vacuum Tube Guitar and Bass Amplifier Theory

By Tino Zottola **B-735** **$14.95**

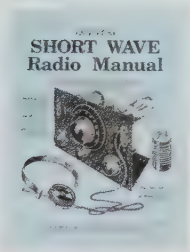
Describes the history and operation of vacuum tubes as well as how they are used in guitar/bass amplifier circuits. Amplifier electrical and physical layout is then examined. The factors affecting amplifier sound are also described. Included in the appendices is useful data such as: resistor and capacitor codes, vacuum tube electrical data, wire gauge table, and musical scale frequency chart. 59 pgs, 0.6 lb 8.5" x 11"

Vacuum Tube Guitar and Bass Amplifier Servicing

By Tino Zottola **B-736** **$14.95**

Guitar amp repair is split into several categories: user serviceable problems (fixable without chassis removal), dead and strange sounding amps. Includes sections on amp disassembly, preventative maintenance, special effects repair, signal tracing, component testing and replacement, bias adjustment, tube matching and amp mods. It's assumed the reader knows basic electronic theory, can read schematics, and can use tools and test equipment. 84 pgs, 0.8 lb 8.5" x 11"

Ham Radio, Shortwave & Communications



1934 Official Shortwave Radio Manual

Edited By Hugo Gernsback **B-390** **$15.95**

A high-quality reprint of Gernsback's 1934 "Complete Experimenter's Set-Building and Servicing Guide," including a "Full Directory of All Short Wave Receivers." Contains schematics of over one hundred different commercial receivers, along with a construction section showing how to build many early short wave receiving and transmitting circuits. 260 pgs, 1.7 lbs 8.5" x 11"

1935 Short Wave Radio Manual NEW!

B-903 **$18.95**

A high quality reprint of Gernsback's 1935 "Complete Experimenter's Set Building and Service Guide", including a "Full directory of all short wave receivers". Contains schematics of over one hundred different commercial receivers, along with a construction section showing how to build many early short wave receiving and transmitting circuits. 240 pgs. 1.7 lbs 8.5" x 11"

A Family Affair- *The R.L. Drake Story*

By John Loughmiller, KB9AT **B-875** **$29.95**

Here is the behind-the-scenes story of the famous R.L. Drake Company, focusing on the glory days, when Drake was king in amateur radio. Every ham and shortwave listener knew R.L. Drake from the outside, but now the inside story of this incredibly interesting company is told. This book also includes a huge section of useful circuits and modifications for many Drake radios. This 300 page book is both an interesting read and a great technical reference. 288 pgs. 2.1 lbs 8.5" x 10.75"

Buying a Used Shortwave Receiver

B-826 **$5.95**

Buying a Used Shortwave Receiver can provide great savings. This book the information you need to intelligently select the right shortwave receiver at the right price.There is information on the 100 most commonly traded shortwave receivers, including both portable and tabletop models. Coverage, Specs, Features, New Price, Used Price, Photographs. 78 pgs, 0.5 lb 5.5" x 8.5"

Communications Receivers, The Vacuum Tube ERA: 4th Edition

By Raymond S. Moore

B-771 $19.95

Improved from edition 3 with new typesetting, new and improved pictures, extensive revisions and new information with 19 pgs added. 144 pgs. 1.2 lbs 8.5" x 11"

Hammarlund Short Wave Manual

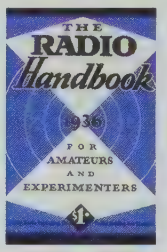
B-519 $4.95

Quality reprint of the Hammarlund 1937 Short Wave Manual, contains instructions for building 12 different, 1, 2 and 3 tube short wave receivers, complete with pictures, schematics and parts lists. 32 pgs, 0.3 lb 6" x 9"

The Radio Handbook 1936- *For Amateurs and Experimenters*

B-843 $19.95

Another terrific reprint from *Lindsay Productions*, this is Frank C. Jones' 1936 Radio Handbook with more project information than the 1936 ARRL Handbook. Contains schematics, diagrams, tube data, transmitter construction articles, antennas, power supplies, receiver design, etc. If you're a builder, this is for you! 360 pgs, 1.5 lb 6" x 9"



Radios by Hallicrafters- Revised and Expanded 2nd Edition with Price Guide

By Chuck Dachis

B-832 $29.95

This new, complete book covers every known Hallicrafters model and accessory. A comprehensive history of the company is provided, repair methods are discussed, and all the units are pictured and listed in almost 700 photographs. Technical specifications are provided in detail for each one, along with dates of production, customer options, color and design variations, and accompanying power sources and tube types. This book is perfect for anyone interested in the history of radio use and technology and is absolutely indispensible for Hallicrafter collectors. A current price guide is included, compiled by the past two decades most avid Hallicrafters collector. 235 pgs, 2.75 lbs 8.5" x 11"

Shortwave Receivers Past and Present Communication Receivers 1942-1997, 3rd Edition

By Fred Osterman

B-782 $24.95

Your comprehensive guide to over 770 short-wave receivers manufactured in the last 55 years. Tabletop, general coverage, amateur, short-wave and specialty receivers are covered. Whether you are a short-wave listener, amateur radio operator or radio collector, here is the information you need in an easy to use format. One hundred short-wave receiver manufacturers from the period of 1942 to 1997 are represented. 473 pgs, 4.0 lbs 8.5" x 11"

Transmitters Exciters & Power Amplifiers 1930-1980

By Raymond S. Moore

B-725 $21.95

A concise guide to American made HAM radio transmitters and amplifiers of the tube era. Covers kits and commercial transmitters with their original price and list of accessories. Included is a 5 page history of the development of amateur transmitters from original power oscillator types through the later filter SSB exciters and transmitters. 144 pgs, 1.1 lbs 8.25" x 11"

Loudspeakers

London Power DIY Speaker Cabinets for Musical Instrument Applications

By Kevin O'Connor

B-884 $15.00

Speaker cabinet design is mysterious to most people, but it doesn't have to be - especially when it comes to speakers for musical instruments. Cabinet evolution is described culminating in Kevin's own designs built by London Power, based on 20+ years of experience and input from expert speaker designers. Resonant and non-resonant cabinets are explored, along with the choice of building materials, finishes, woodworking techniques, installing grill cloth, and the use of wheels and handles. Driver selection and mixing is detailed, covering driver impedance, power ratings and wiring. Dare to design bad tone right out of your life! Spiral bound 77 pgs, 1 lb 5.5" x 8.5"

Phonographs

Look for the Dog

By Robert W. Baumbach

B-646 **$19.95**

An illustrated Guide to Victor Talking Machines, 1901 to 1929. 326 pgs cover every model of phonograph Victor produced, with illustrations and descriptions. Also contains a section on servicing notes. This is the most complete book on Victor phonographs available anywhere! 326 pgs, 1.1 lbs 5.5" x 8.5"

Radio Collecting

The All-American Five Radio NEW!

By Richard McWhorter

B-906 **$21.95**

Understanding and restoring transformerless radios of the 1940's, 1950's and 1960's. Begins with a description of the fundamentals of direct current and alternating current. Also included is some basic information about resistors and capacitors. Circuits are discussed in detail beginning with the simplest and progressing to those that are quite complex. When you finish this book, you should be able to read and understand all of the electronic symbols and the functionality of each radio circuit.
92 pages. 7" x 10" 0.5 lb.

A. Atwater Kent- *The Man, the Manufacturer and His Radios* NEW!

By Ralph Williams & John P. Wolkonowicz, Edited by Donald O. Patterson

B-904 **$25.95**

A comprehensive story of A. Atwater Kent from his return to Worcester Polytechnic Institute to his company and all of its radios. Also contains a complete listing with descriptions of A.A. Kent radios. 108 pages, 1.0 lbs. 8.5" x 11"

Classic Cones- *A Pictorial Reference and Value Guide for 1920's Radio Cone Speakers*

By Buford and Jane Chidester

B-887 **$25.95**

In the latter part of the 1920's, radio manufacturers turned their attention to designing speakers that would look attractive and blend in with the home environment as well as sound better than the horn speakers produced in the earlier part of the decade. This full color book provides photos, descriptions and current values for almost 300 different models of radio cone speakers from the1920's. It also includes many advertisements for the speakers shown. 122 pgs 1.0 lbs. 8.5" x 11"

The Complete Guide To Antique Radios: Pre-War Consoles

By Mark V. Stein

B-852 **$29.95**

This is the first and only comprehensive reference on console radios. From Admiral to Zenith, over 3,500 models are individually pictured, described and valued. Consoles listed begin with the 1929/30 production year and span through the end of production in 1942. As with the Machine Age to Jet Age series, the author has included tube and band count information and variations wherever possible. This invaluable reference also includes an expanded resource section listing dealers, collectors, publications, experts/specialists, products/suppliers, restoration services and important websites. The author also provides important information about identification, grading/valuation and historic insights. Softbound laminate cover, B&W format 240 pgs, 1.6 lbs 8.5" x 11"

The Complete Guide To Antique Radios: Tabletop Radios Volume 4 NEW!

By Mark V. Stein

B-912 **$29.95**

Formerly Machine Age to Jet Age, this reference is comprised of all new and expanded listings not appearing in prior volumes. The total number of models now cataloged in this four-volume series is well over 12,000! The new format in this volume now includes manufacturer, model number and year, tube and band counts, color, materials and market value variations. This new volume contains 2500 new radio listings and 1500 new illustrations! B&W format 240 pgs, 1.6 lbs 8.5" x 11"

A Flick of the Switch

By Morgan E. McMahon

B-305 $11.95

A companion volume to Vintage Radio 1887-1929, this book continues with the history of radio into the beginnings of television. Over 1000 pictures. 300 pgs, 0.8 lbs 5.25" x 8.5"

Guide to Old Radios: Pointers, Pictures and Prices 2nd Edition

By David and Betty Johnson

B-715 $19.95

Contains more than 3,300 listings with updated prices; organized alphabetically by manufacturers; 350 photos and illustrations which document the evolution of both radio and broadcasting; and two additional chapters on the heyday of radio. 277 pgs, 1.4 lbs 7" x 10"

Machine Age to Jet Age Volume 2

By Mark V. Stein

B-752 $28.95

Volume II - 1930-1959, (New 2001 update: Includes 2001 market values of variations not previously included!). A supplement to Mark Stein's first book (B-690), this volume has over 350 pgs of all new listings, with 3,100 radios pictured and valued. Listings in both volumes now total over 4,000. 200 color photos. This volume is also expanded to include the years 1930 - 1932. A must for the tabletop radio collector. 358 pgs, 2.3 lbs 8.5" x 11"

Machine Age to Jet Age Volume 3

By Mark V. Stein

B-829 $29.95

Volume III - 1930-1962. All new listings, with over 2,800 radios pictured and dated, with tube counts and current collector values. Listings for the 3 volumes of this excellent series now totals 7,000. 256 pgs, 1.6 lb 8.5" x 11"

Philco Radio: 1928-1942

By Ron Ramirez with Michael Prosise

B-644 $29.95

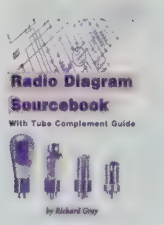
A comprehensive reference book on Philco, the leading radio manufacturer during radio's "Golden Age". Contains a year-by year look at the Philco radio line with specifications for each model. 200 color photographs, 200 b/w photographs and line drawings. 160 pgs, 1.5 lbs 8.5" x 11"

Radio Diagram Source Book With Tube Complement Guide

By Richard Gray

B-739 $18.95

Need a wiring diagram to repair an old radio, or help identifying a make or model number? This book introduces the collector to various sources of early service literature. Lists over 10,000 U.S. made radios with tube complement, dial lamp and IF frequency used. 269 pgs, 1.0 lb 6" x 9"



Radio Manufacturers of the 1920's

By Alan Douglas

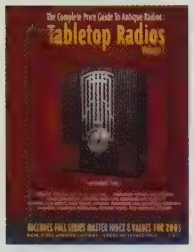
This monumental 3 volume work offers an outline history for each of the major radio manufacturers of the 1920's. It features the company principals and their factories, the financial ups and downs of the industry, and hundreds of pictures of radios produced up to 1930. Over 250 pgs each volume. All softcover. 2.0 lbs each. 8.5" x 11" each.

Vol. 1	A-C Dayton through J.B Ferguson	B-385	$24.95
Vol. 3	RCA through Zenith	B-567	29.95

Sears Silvertone Catalogs 1930-1942

By Mark V. Stein **B-876** **$34.95**

This is the first publication ever to focus on radios marketed under the Sears Silvertone brand name. Over 1000 Silvertone Radios as they originally appeared in the Sears Catalogs - Historical notes, current values, variations and manufacturer's code key also included. 240 pgs, 1.25 lbs 8.5" x 11"



Tabletop Radios Volume I- The Complete Price Guide to Antique Radios

By Mark V. Stein **B-900** **$27.95**

Formerly *Machine Age to Jet Age Vol. 1* (B-690), this book has been revamped and re-named. This revised volume represents the complete contents of the original reference, plus more! Formats have been streamlined and enhanced to include tube and band counts, as well as the current values for all models and their variants. Also, newly included is a comprehensive cross reference with 2003 market values. This index encompasses listings for all radios pictured in the full three-volume series. With over 9,000 listings, this guide serves as both an excellent introduction to the series as well as an invaluable update for those who already own a copy of *Machine Age to Jet Age Vol. 1.* 240 pgs, 1.6 lbs 8.5" x 11"

Transistor Radios 1954-1968

By Norman Smith **B-801** **$29.95**

Get the story on who and what shaped the radio and get ready for a nostalgic trip back to the heyday of portable music. Over 1,000 radios are featured in this book, from American manufacturers such as Admiral and Zenith and from Japanese manufacturers such as Hitachi, Realtone and Sony. All radios are identified by manufacturer, model number, number of transistors, special features, country of origin and date. A complete value guide is included to help the collectors. 160 pgs, 2 lbs 8.5" x 11"

Zenith Radio: The Early Years 1919-1935

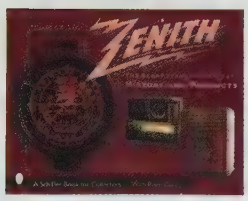
By Harold Cones, PhD **B-770** **$29.95**

John Bryant, AIA with Martin Blankinship and William Wade. Zenith's "The Quality Goes in Before the Name Goes On" is one of the most recognized, and well earned corporate mottos in America. With access to the Zenith corporate archives and their discovery of the long sealed files of one of Zenith's founders, the authors present for the first time the documented story of the early years of Zenith. The authors present a wealth of never before published photographs, documents and information as well as color portraits of many Zenith radios of the era. Includes a database of valuable information which covers every radio produced by the company, along with a rarity and price guide. 192 pgs, 2 lbs 11" x 8.5"

Zenith Radio Service Manual and Parts List

B-755 **$18.95**

Re-print of early Zenith service manual. Includes schematics and parts lists for Zenith radios made from 1928 through 1939. Offers help with alignment procedures, antenna alignment, and gives parts lists along with tube layouts on most models. 510 pgs, 2.6 lbs 8.5" x 11"



Zenith Radio, The Glory Years, 1936-1945: History and Products NEW!

By Harold Cones, Ph,D., John H. Bryant, FAIA, & Martin Blankinship **B-908** **$34.95**

History and Product begins with an exploration of the history of the corporation from 1936-1945 in a thoroughly researched and illustrated way. It continues with color photographic portraits of outstanding examples of many of the products manufactured by Zenith in this period, providing a visual survey of the wide range of Zenith radios produced during the Glory Years. 180 color & 183 b/w photos 256 pgs, 2.4 lbs 11" x 8.5"

Zenith Radio, The Glory Years, 1936-1945: Illustrated Catalog and Database NEW!

By Harold Cones, Ph,D., John H. Bryant, FAIA, & Martin Blankinship **B-909** **$29.95**

The Illustrated Catalog and Database includes a catalog that gathers the most complete collection of Zenith images ever published, followed by a Database which is the most complete listing of Zenith products. In addition, appendices to this volume include Commander Eugene MacDonald's Presidential speeches, information on telepathy experiments at Zenith, Zenith in the movies, and Zenith Annual Reports from 1936-1946. 520 b/w images. 182 pgs, 1.7 lbs 11" x 8.5"

The Zenith Trans-Oceanic

By John H. Bryant, AIA and Harold N. Cones, Ph.D. **B-689** **$24.95**

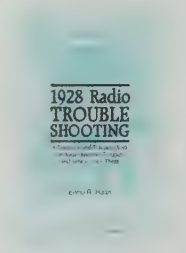
The Royalty of Radios. The definitive book of perhaps the most popular radio produced during the first 50 years of radio. Complete history as well as collecting and restoration hints. Full of pictures, many in color. 160 pgs, 1.7 lbs 8.5" x 11"

Technical

1928 Radio Troubleshooting: *A Complete and Practical Work on Radio Receiver Troubles and How to Cure Them*

By Enno R. Haan **B-766** **$12.95**

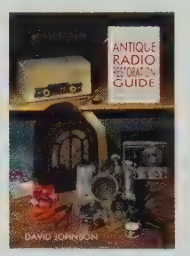
A re-print of great 1928 nuts and bolts book by then editor of Popular Mechanics. Within each chapter are informative details on tube testing and rejuvenation, filament circuit troubles, how to neutralize a neutrodyne, fixing open circuited loudspeakers, care of headphones and much more. Includes a troubleshooting section and six pgs of tube specifications for types such as UX201A , Ceco A,H and K, DeForest DV-5, DL-4, DL-2 and others. Many great line art illustrations. 317 pgs, 1.1 lb 5.5" x 8.5"



Antique Radio Restoration Guide 2nd Edition

B-627 **$17.95**

Teaches basic technique for troubleshooting and repairing old radios, refinishing cabinets, and following necessary safety precautions. Also contains useful information such as sources for parts, schematics, a glossary of terms and more. 160 pgs, well illustrated. 1.0 lb 7" x 10"



Atwater Kent Radio Service Manual

B-356 **$13.50**

A reprint of the 1928 A.K. factory service manual, covering models 10, 10B, 12, 20, 20C, 30, 32, 33, 35, 36, 37, 38, 40, 42, 44, 48, 49, 50 and 52. Spiral bound. 98 pgs, 0.8 lb 9" x 11"

Atwater Kent Radio Parts List

B-357 **$12.50**

A companion book to the 1928 A.K. Service Manual (B-356), this reprint shows chassis views and parts identification for all the models listed above. Spiral bound. 64 pgs, 0.5 lb 9" x 11"

Atwater Kent Radio: *Electrical Values of Resistors & Condensers*

B-574 **$7.75**

Reprint of 1932 Atwater Kent special service manual gives values for resistors and condensers used in every receiver up to 1933. This hard-to-find information is normally not given on Riders or original A.K. schematics. Values may be looked up by A.K. part number or radio model number. 24 pgs, 0.1 lb 8.5" x 11"

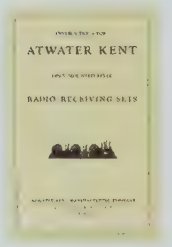
Set of All Three Atwater Kent Books (listed above) **B-AKSET** **$29.95**

Includes: B-356, B-357 & B-574. Save over 10%!

Instructions for Atwater Kent Open Mounted Radio Receiving Sets

B-600 **$6.95**

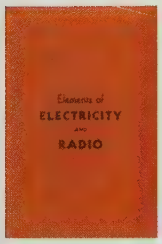
High quality reprint of a 1929 Atwater Kent booklet showing photos and battery hook-ups for 14 different breadboard receivers. 12 pgs, 0.2 lb 6" x 8.75"



Complete Instructions for Adjusting All Philco Radios

B-554 $5.95

Reprint of 1934 factory alignment instructions covering all Philco receivers to that time. Shows chassis layouts and adjustment locations for over 50 models. 35 pgs, 0.3 lb 6" x 9"



Elements of Electricity and Radio

B-758 $8.95

Re-print of the original basic electricity and electronics course from the US Navy. Has chapters on mathematical principals (everyone's favorite!), to elementary definitions and Ohm's Law, to applications of vacuum tubes. Also has commonly used charts and tables. If you're interested in electronics, but need to start at the beginning, this book is for you. Great WW II stuff; over 50 years old, but still good info. 205 pgs, 0.7 lbs 6" x 9"

The Impoverished Radio Experimenter

B-861 $5.95

Contains tricks, tips and secrets to help the builder of simple radios and electrical gear achieve high performance at minimal cost. Also: vacuum tube substitutions; inexpensive tube power supplies; grid leak detectors; regenerative receivers and more. 48 pgs, .25 lb 5.5" x 8.5"

The Impoverished Radio Experimenter Volume 2

B-885 $5.95

Contains tricks, tips and secrets to help the builder of simple radios and electrical gear achieve high performance at minimal cost. Build a grid dip oscillator, a shortwave converter, a slow motion dial drive, space-wound coils and more!
48 pgs, .25 lb 5.5" x 8.5"

The Impoverished Radio Experimenter Volume 3

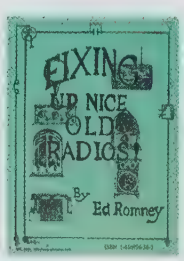
B-901 $6.95

Contains tricks, tips and secrets to help the builder of simple radios and electrical gear achieve high performance at minimal cost. Build and Impedance Bridge, a one-tube SW receiver, a headphone amplifier, old-time radio cases and more! 48 pgs, .25 lb 5.5" x 8.5"

The Impoverished Radio Experimenter Volume 4 NEW!

B-907 $6.95

Contains tricks, tips and secrets to help the builder of simple radios and electrical gear achieve high performance at minimal cost. Build a TRF Regen Receiver • One-tube Crystal Converter • Versatile Power Supply • Slide Rule Dial and much more! 48 pgs, .25 lb. 5.5" x 8.5"



Fixing Up Nice Old Radios!

By Ed Romney

B-549 $34.95

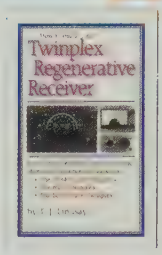
Easy to understand guide to antique radio repair covers everything from crystal sets to the Scott 800B! Uses photos of the insides of popular collectible sets to cover actual repair jobs in detail. Includes AK, Zenith, Bosch, Scott, National, Hallicrafters, Crosley 50, Radiola III, 17, 25, R-28, Philco and others. Explains Wunderlich, AVC, crystal filters, Scott and Zenith push-buttons and band-switches, alignment and more. 170 pgs, 1.2 lbs 8.5" x 11" Spiral Bound

How to Build the Twinplex Regenerative Receiver

By T.J. Lindsay

B-791 $7.95

You can build the 1934 classic Doerle Twinplex, a single tube regenerative receiver powered by batteries! Simple, stable, sensitive and inexpensive. Great project for beginners or those who remember the joy of making their own radios. Includes designs for two other Twinplex receivers, one tube and one solid state. 63 pgs, 1.0 lbs 5.5" x 8.5"



How to Build Your First Vacuum Tube Regenerative Receiver

By T.J. Lindsay

B-774 $9.95

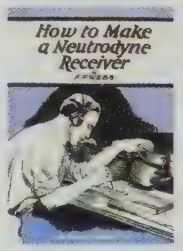
This book will coach you through building your first regenerative receiver. Learn the practical aspects of finding old components and using them toward your goal of building your own little radio. The set described is a real working receiver that was built from salvaged material on hand. 127 pgs, 0.5 lbs 5.5" x 8.5"

How to Make a Neutrodyne Receiver

By F.F. Webb

B-763 $6.95

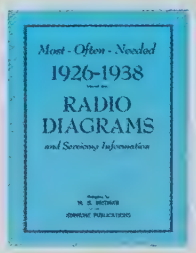
Re-print of a 1925 book which shows you how to build a radio like those used before the superheterodyne days. 12 chapters cover topics such as advantages of neutrodyne, description of a neutrodyne set, vacuum tubes used, how to build the neutroformer, neutralizing condensers, neutralizing the set, antenna for set, operating and troubleshooting. Information can be used to build a set from scratch or to help you restore an original. 59 pgs, 0.5 lbs 5" x 7



Most Often Needed 1926-1938 Diagrams

B-307 $18.95

A reprint of Morris Beitman's Supreme Publications book, showing circuit diagrams for 600 of the most commonly found radios of that time. A valuable resource for restorations. 240 pgs, 1.4 lbs 8.5" x 11"

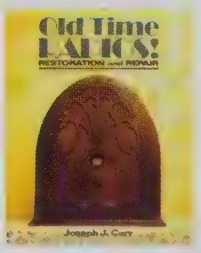


Old Time Radios! Restoration and Repair

By Joseph J. Carr

B-570 $19.95

A well-written book on the history, theory and practical operation of old-time radio sets, with detailed instructions on how to repair them. Included is information on how vacuum tubes work, radio troubleshooting, alignment, test equipment, and repairing water damage. 256 pgs, 1.0 lb 7.25" x 9"



Oscilloscopes: Selecting and Restoring a Classic- While Supplies Last

By Stan Griffiths

B-631 $26.95

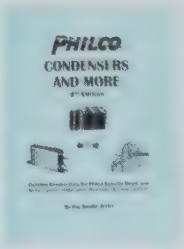
The complete book of Tektronix oscilloscopes from 1950 through the early 1970s. Contains pictures and detailed descriptions of every model in the Tektronix line, along with information and tips on restoring these classics.
372 pgs, 1.0 lb 5.5" x 8.5"

Philco Condensers and More

By Ray Bintliff W1RY

B-830 $17.95

Provides detailed data for Philco Bakelite block condensers, metal-cased condensers and tone controls. Pictorial guides show electrical connections and capacitor values. More than 300 illustrations. 68 pgs 0.4 lb 8.75" x 11"



Radio for the Millions- *Prepared by the Editorial Staff of Popular Science Monthly, 1945*

B-781 **$11.95**

From vintage issues of Popular Science Magazine comes this re-print of well-illustrated electronics articles. Topics include phonographs and shortwave radios, cabinet design and radio servicing. Each article has sharp photographs, schematics, and parts lists. 192 pgs, 1.0 lb 6" x 9"

Radio Set Socket Layout Guide 1921 to 1935

B-624 **$9.95**

This reprint of a 1935 RCA publication shows tube complement, chassis layout and date of manufacture for thousands of radios produced by over 100 different manufacturers. It also contains a tube data chart and base diagrams for RCA receiving tubes. It is very useful for identifying unknown model numbers or determining which tubes belong in a set. 256 pgs, 0.9 lb 5" x 8.25"

Radio, Wireless Telephone and Wireless Telegraph Equipment

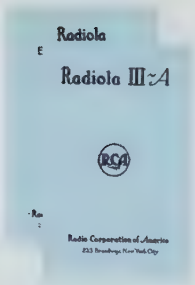
B-697 **$2.75**

High quality reprint of early (1920's) Montgomery Ward catalog of "wireless" equipment. 32 pgs of radios, kits, tubes and books as available 70 years ago. Sorry, you can't order from this catalog! 0.2 lbs 7" x 9.5"

RCA Radiolas, Radiotrons, and Accessories

B-K15 **$3.95**

A reprint of 1925 RCA promotional literature. 20 pgs of pictures and information on models 30, Super VIII, 28, 26, 25, 20, III, and IIIA receivers and loudspeakers #100, 102, 104 and UZ-1325. 20 pgs, 0.2 lb 4.75" x 7.5"



Radiola Instruction Manuals

Reprints of the RCA instruction manuals, covering installation and operation of the Radiola III series units. 0.2 lb. each 5.5" x 8.5" each

Radiola III 15 pgs	B-321	$4.95
Radiola III-A 15 pgs	B-344	4.95

Ready Set Go! *An Electronics Reference for the Everyman*

By Kevin O'Connor

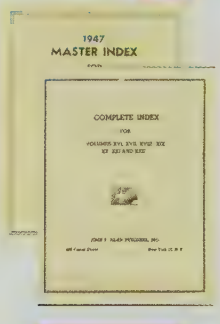
B-821 **$20.00**

A handy reference for the novice electronic tinkerer and experienced craftsman alike. Informative and easy to read, the book explains: how to read schematic symbols; explains standard notation, S.I. symbols and tolerances; reveals the resistor color code; lists standard resistor values for 1%, 5%, 10% and 20% components; lists standard capacitor values and explains the color coding of vintage caps; explains current, voltage, power, resistance, capacitance and inductance; explains Ohm's Law and how to figure out series/parallel resistance. Transformers and impedance are clearly explained. Examples are worked out throughout the book to illustrate how truly simple basic electronics is! Spiral bound. 84 pgs, 2 lbs 9" x 11"

Rider 1947 Master Index to Perpetual Troubleshooter Manuals

B-331 $19.95

Covers volumes I thru XV. High quality photocopy. 205 pgs, 1.1 lbs 8.75" x 11"



Rider Complete Index to Perpetual Trouble Shooter Manuals

B-347 $8.95

Covers volumes XVI through XXII. 48 pgs, 0.5 lb 8.5" x 11"

Secrets of Homebuilt Regenerative Receivers

By C.F. "Rock" Rockey

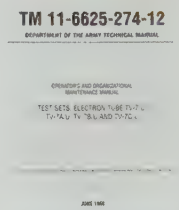
B-742 $9.95

Discover the secrets of building regenerative shortwave receivers. These incredibly simple radios will amaze you with their unbelievable ability to pull in signals from every country on earth. All the secrets are here! 127 pgs, 0.8 lb 5.5" x 8.5"

Operators and Organizational Maintenance Manual for TV-7/U, TV-7A/U, TV-7B/U, and TV-7D/U Tube Testers

B-675 $10.95

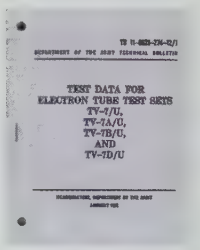
Reprint includes introduction and general description of tester, operating instructions, maintenance instructions and even instructions for demolition to prevent enemy use! Spiral bound. 44 pgs, 0.3 lbs 8.5" x 11"



Test Data for TV-7/U Tube Tester

B-546 $9.95

High quality reprint of the test set-up manual for the military TV–7/U, TV–7A/U, TV–7B/U, and TV–7D/U versions of Hickock tube testers, normally supplied in the lid of the tester. Also contains operating instructions, conversion table for Army VT numbers, and data table for CV type tubes. 83 pgs, 0.4 lb 6.75" x 5.25"



Thordarson Transformer Manual

B-864 $11.95

This is a reprint of Thordarson's Sound Amplifier Manual No. 346-A, Serviceman's Guide 342-A, Radio Servicing Guide 342-B, Complete Transformer Guide 400, and TruFidelity Transformer Catalog 500. 144 pgs, 1.5 lbs 8.5" x 11"

Tube Testers and Classic Electronic Gear

By Alan Douglas

B-853 $25.95

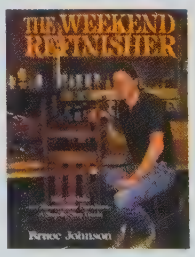
Provides an overview of pre-1970 (the vacuum tube era) radio test equipment. It begins with an extensive discussion of tube testing and use of testers, and progresses into curve tracing. The different types of testers are compared; emission, dynamic and mutual conductance, and testers from 23 different manufacturers are tabulated and pictured. Also covers VOMs, VTVMs, Q Meters, Grid Dip Meters, Capacitance and Inductance Bridges, Signal Generators, Signal Tracers and Oscilloscopes. It includes brief company histories of the manufacturers. Useful for radio collectors, vacuum tube enthusiasts and historians. Over 300 photos and illustrations. 172 pgs, 1.3 lbs 8.5" x 11"

The Weekend Refinisher

By Bruce Johnson

B-645 $14.95

Easy-to-follow guide teaches the basics of wood repair and finish restoration. Learn how to repair scratches, veneer chips, fill small holes, raise dents, remove water damage, identify and revive various finishes and more. 295 pgs, 1.0 lb 7.25" x 9.25"

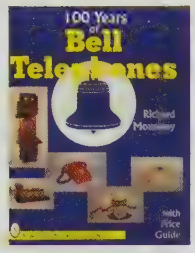


Zenith Radio Service Manual and Parts List

B-755 $18.95

Re-print of early Zenith service manual. Includes schematics and parts lists for Zenith radios made from 1928 through 1939. Offers help with alignment procedures, antenna alignment, and gives parts lists along with tube layouts on most models. 510 pages, 2.6 lbs.

Telephones & Early Televisions



100 Years of Bell Telephones

By Richard Mountjoy

B-730 $29.95

From the Coffin sets of the 1870's to the Princess phones of the 1960's and beyond, this book explores the technology and the history of the telephone. Because the Bell Company was the sole source for much telephone technology until very recently, much of the public access to this information has been quite limited. This definitive work will end much uncertainty by providing a vast amount of information never before published. Design changes are carefully chronicled with 350 color photographs. For those who are restoring a telephone and would like to ensure its historical accuracy, this book will make it easy to match pieces correctly. 175 pgs, 1.9 lbs 8.5" x 11"

Collector's Guide to Vintage Televisions

By Bryan Durbal & Glenn Bubenheimer

B-833 $15.95

Current values for over 1400 postwar TVs, including 1940s consoles and tabletops, 1950s predictas and portables. 1960s JVC, Sony and Panasonic, through the hand held sets of the 1980s. Over 200 full color photos. 198 pgs, 1 lb 5.25" x 8.5"

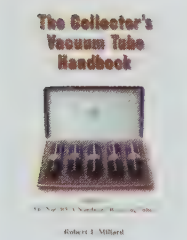
Vacuum Tubes

The Ballast Tube Handbook

By A.P. Jacobi

B-573 $10.95

A comprehensive collection of ballast tube data, newly revised and expanded to include a 53 page section on ballast tube substitutions. Lists over 4000 tube numbers. 120 pgs, 0.9 lb. 8.5" x10.75"



Collector's Vacuum Tube Handbook Volume 1

By Robert T. Millard

B-883 $25.95

This book contains hard-to-find electrical data on nearly 200 tube types that pre-date the RMA (Radio Manufacturers Association) standardized numbering system, which was initiated in 1934. It includes basing diagrams, photos of tubes and boxes, and brief developmental histories of each. Western Electric, DeForest, Arcturus, Cunningham, GE, Westinghouse, Philco, Speed, Ken-Rad, Sparton, Cardon, Daven, McCullough, and others are among brands covered. 196 pgs, 1.2 lbs. 7" x 10"

Electron Tube Locator

By George H. Fathauer

B-662 $27.95

A comprehensive listing of receiving, transmitting and industrial tube types manufactured in the U.S. and Europe with references to sources of complete data. Includes tube functions, filament/heater characteristics and basing diagrams. Lists approximately 12,000 different tube types. Contains over 300 pgs of data and diagrams. 326 pgs, 1.5 lbs 8.5" x11"

Electron Tube Resume

By George H. Fathauer

B-672 $4.95

An abridged version of the "Electron Tube Locator" covering the designation system used by major tube manufacturers in the U.S. and Europe. Includes equivalent tables for U.S. VT types and early Navy types. 30 pgs, 0.3 lb. 5.5" x 8.5"

Getting the Most Out of Vacuum Tubes

By Robert B. Tomer

B-898 $14.95

Types and causes of tube failures, what to expect from tubes, testing methods, and all about tube maintenance programs. 160 pgs 0.6 lb 5.5" x 8.5"

G.E. - Essential Characteristics

B-377 $13.95

The 1973 edition of G.E.'s tube data book, giving all the characteristics starting with 00A and 01A. Includes foreign to American tube interchangability chart, industrial/military cross reference, picture tube data and basing diagrams. Also entertainment semiconductors. 473 pgs, 1.3 lbs 5.5" x 8.5"

Principles of Electron Tubes

By Herbert J. Reich

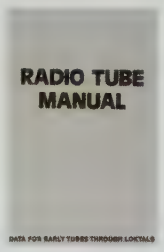
B-693 $34.95

First appeared in 1941 as a textbook for beginners studying tube technology. Includes physical concepts, thermionic emission, grid controlled high vacuum tubes, circuit analysis, amplifier design and much more. A must for any library. 398 pgs, 1.5 lbs 6" x 9"

Radio Tube Manual

B-337 $5.95

Reprint of early manual giving data and basing diagrams on tubes from 00A through octals and loctals. Includes types BA and BH, Sparton 182B and 183, and 2 pgs on early Western Electric types. 35 pgs, 0.3 lb 5.25" x 8.5"



Radio Tubes and Boxes of the 1920's

By George A. Fathauer

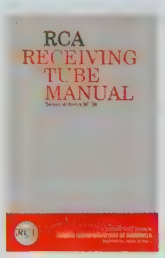
B-824 $26.95

George Fathauer captures the excitement and intrigue of that first decade of home radio through a pictorial presentation of the radio tubes of the era. With over 400 photos and illustrations of early tubes, it shows the colorful packaging and sometimes unusual construction features employed by tube makers to market their products to the public. Collectors and historians alike will appreciate this entertaining way of revisiting the early days of the electronics industry in the United States. 105 pgs, 1 lb 5.25" x 8.25"

RCA Receiving Tube Manual RC-19

B-654 $12.95

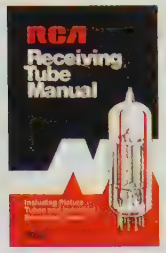
A high quality reprint of the 1959 RCA Receiving Tube Manual (Technical Series RC-19). Includes receiving and picture tube characteristics, basing diagrams, and outline drawings. 380 pgs, 1.0 lb 5.25" x 8.25"



RCA Transmitting Tube Manual

B-676 $12.95

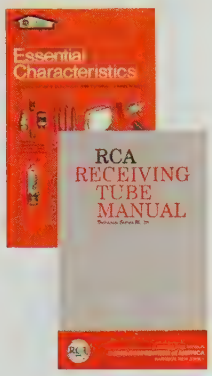
A high quality reprint of the RCA Transmitting Tube Manual TT-5, it includes tubes up to 4kw plate input. Includes technical data, outlines and typical circuits. 316 pgs, 0.9 lb 5.25" x 8.25"



RCA Receiving Tube Manual RC-30

B-822 **$24.95**

A high quality reprint of the 1973 RCA Receiving Tube Manual (Technical Series RC-30). Includes tubes not found in RC-19, for example: 6CA7/EL34, 5AR4/GZ34, 6DJ8, 6DN7, 6LF6, 6KG6A/EL509, 6550, 7189, 7591 and the 7868 to name a few. Also includes pictures and industrial receiving tubes. 760 pgs, 2.0 lbs 5.25" x 8.25"

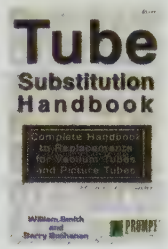


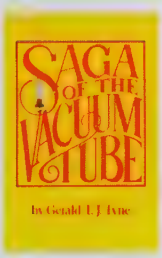
Tube Data Book Set

B-DATABOOKS **$45.75**

Want all the tube specifications and cross references? Buy the following 4 books and save almost 15%! 3 lbs.

B-377 GE Essential Characteristics
B-654 RCA Receiving Tube Manual (RC-19)
B-825 Tube Substitution Handbook
B-672 Electron Tube Resume





Saga of the Vacuum Tube

By Gerald F.J. Tyne

B-376 **$17.95**

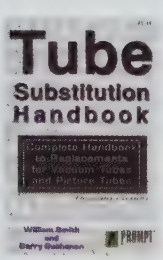
The most comprehensive history of the thermionic vacuum tube. Contains hundreds of photos and essential facts to assist in identifying tubes made prior to 1930, and traces the evolution of tube development with histories of the manufacturers. Truly a classic! 494 pgs, 1.4 lbs. 5.5" x 8.5"

Tube Lore: A Reference for Users and Collectors

By Ludwell Sibley

B-748 **$19.95**

For the serious tube enthusiast: a collection of tech data, history of design trends, notes on equivalents, stocking-up hints, "where-used" information, etc. Describes regular grided tubes used in radios, audio amplifiers, and communications gear, plus the unique types in radar and other special applications. Includes 30 page chapter on Western Electric. Has material unavailable in conventional tube manuals: hints on identifying, dating, testing, reactivating, etc. Does not have detailed specs or curves. 186 pgs, 1.0 lbs 8.5" x 11"



Tube Substitution Handbook Revised Edition

William Smith and Barry Buchanan

B-825 **$21.95**

This is the most accurate, up to date guide available to determine direct substitutions for receiving tubes and picture tubes. 149 pgs, 0.5 lbs 6" x 9"

Western Electric Tube Data

B-659 **$17.95**

Hard-to-find data for 44 Western Electric tube types (205D, 300B, 350B, etc.) popular for audio use and early tube collecting. Includes pictures of tubes and complete operating characteristics and curves. 240 pgs, 1.5 lbs 8.5" x 11"

VACUUM TUBE VALLEY®

Edited by Charles Kittleson

Very high quality publication for electronic enthusiasts interested in the colorful past, present and future of vacuum tube electronics. All issues still available, get the whole set. Check with us for the new quarterly issues as they come out during the year. Fantastic reading and pictures. All issues are 8.5" x 11"

Warning: Once you read one, you'll want them all!

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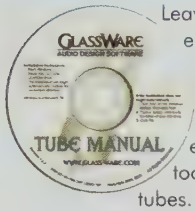
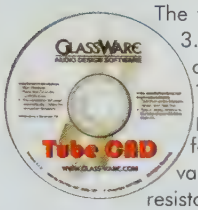


Leave DOS and the black screen and cryptic keyboard entries behind. A true 32-bit Windows program (95/98/NT/XP), GlassWare Tube Manual is both user friendly and powerful. It's all here: plate curves, mu, rp, Gm, Vh, Ih, base and outline schematics, and essential characteristics. Powerful search and filtering tools give control over this tube manual's large library of tubes. Look up your favorite tubes (6SN7, KT88, 2A3, and 6922) and discover other great tubes you didn't know existed. With the aid of easy-to-use editing tools, tubes can be added or subtracted to the database. Keep track of your own tube collection with GlassWare Tube Manual's personal tube database. Like all GlassWare programs, GlassWare Tube Manual allows you to print the results. Hard copies of all the tubes in this tube manual are a button click away. And tube substitutions are given for over 2000 tube types. CD-ROM.

SE Amp CAD
B-CD031 $39.95

SE Amp CAD is a Windows program that helps you design, understand and modify single-ended amplifier output stages—a virtual workbench for single-ended output stage design. True Curves™ is the name of the new mathematical model used in SE Amp CAD. True Curves™ knows how a 300B or an 845 really bends: how the plate current varies with changes in grid to cathode voltage versus changes in plate voltages. With the True Curves™ tube model in SE Amp CAD you can quickly and easily model, evaluate, and understand a tube single-ended output stage. SE Amp CAD holds 30 tube models (triode and triode-connected pentodes) and over 100 output transformer profiles. The output data results, the output circuit schematic, the tube's plate curves (grid voltage, plate voltage, plate current, rp, mu, Gm), the input signal and the resulting output signal —all are displayed interactively by SE Amp CAD. CD ROM

Tube CAD
B-CD028 $39.95



The tube voltage amplifier design program for Windows 3.1/95/98/NT/XP. This program covers 13 core tube circuit topologies, each divided into four variations. Thus, Tube CAD covers 52 tube circuits in all. All the popular circuits are here: SRPP, cascode, cathode follower, push-pull, split load phase splitter... Circuit variables (such as tube type, B+ voltage, plate and cathode resistor values) are entered in field boxes and the AC and DC results are then displayed. Tube CAD includes data for 32 triode tube types. Plus define characteristics for any triode not included in the library. Display and print the curves of tube types included with the program. Includes 40+ page user manual. Includes user manual. CD ROM

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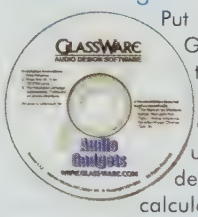
B-CD027 $39.95



Put away your scientific calculator and text books: Audio Gadgets is a program for Windows 3.1/95/98/NT/XP that helps you design a step attenuator up to high voltage power supply. Easy to use, yet powerful. Audio Gadgets is really ten programs in one: stepped attenuator design, op-amp circuit design, power supply design, filter design, adj. regulator design, resistor calculator, speaker design, RIAA equalization, tube circuit design and more. Print previews and report printing add to the program's usefulness. Includes 40+ page user manual which is informative just by itself. CD ROM

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Interested in repair, service or in parts we don't carry? Listed below are some of the folks we call when we need help. However, please use this list as a reference, not as an endoresement or recommendation. Use good business sense with dealing with anyone. Yes, that includes us! Much as we'd like to offer technical advice and service, we just don't have the time or resources. Please utilize these or other folks for your design and technical needs. You can also check our website at www.tubesandmore.com for technical notes.

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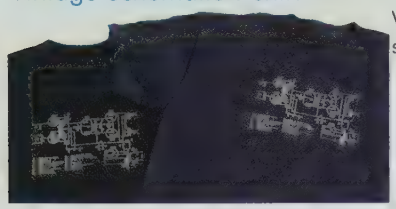

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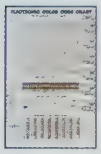

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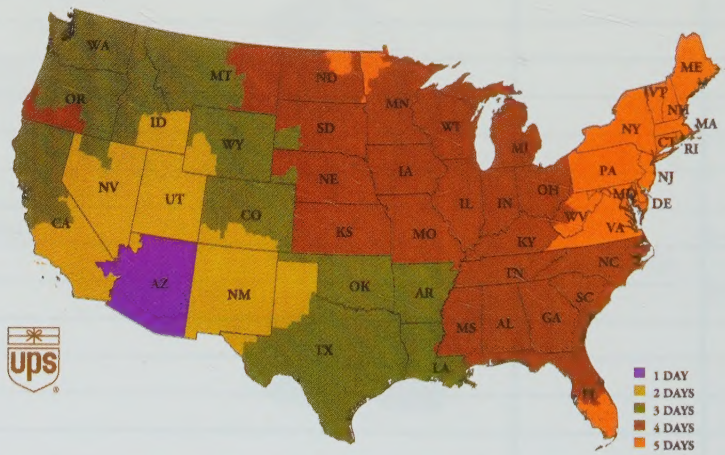

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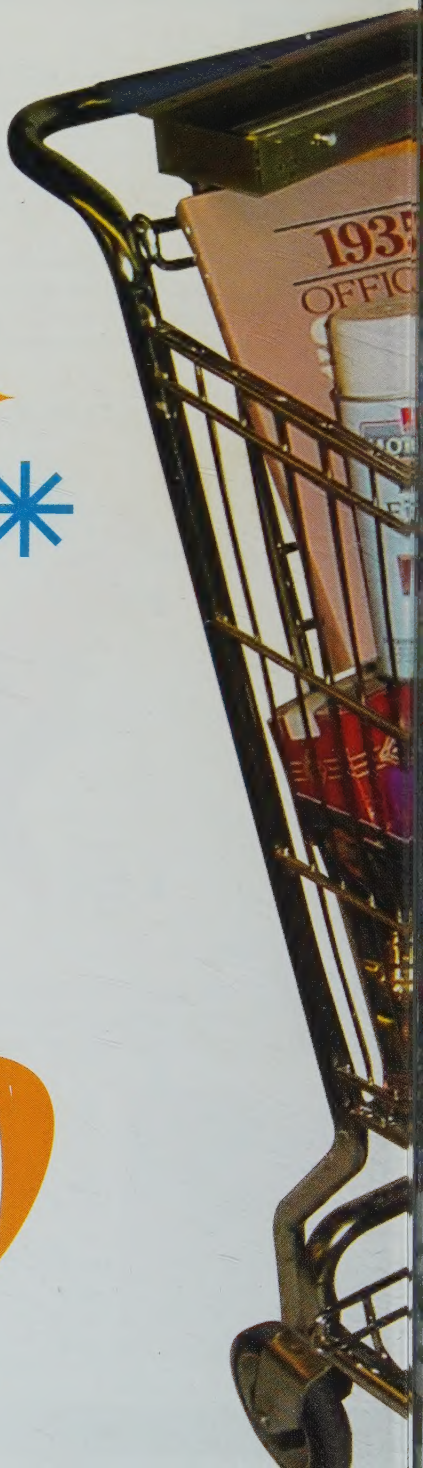

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